

INVENTOR SEARCH

=> d his l101

(FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007)
 L101 26 S L100 AND L50

=> d que l101
 L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW/DT
 L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
 MUN?(A)(SUPPRESS? OR REG?)
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
 L99 718 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
 L100 228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
 L101 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50

=> d his l131

(FILE 'MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:40:59 ON 27
 JUL 2007)
 L131 6 S L130 AND (L50 OR L59)
 SAV L131 JEA176MULTIN/A

FILE 'STNGUIDE' ENTERED AT 12:44:10 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 12:45:23 ON 27 JUL 2007
 SAV L101 JEA176HCPIN/A

FILE 'STNGUIDE' ENTERED AT 12:46:17 ON 27 JUL 2007

=> d que l131
 L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW/DT
 L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
 MUN?(A)(SUPPRESS? OR REG?)
 L59 QUE ABB=ON PLU=ON EDGL(A)S1P?
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
 L128 608 SEA L97
 L129 277 SEA L128 AND L98
 L130 143 SEA L129 AND L48
 L131 6 SEA L130 AND (L50 OR L59)

=> dup rem l101 l131

FILE 'HCAPLUS' ENTERED AT 12:49:36 ON 27 JUL 2007
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 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'MEDLINE' ENTERED AT 12:49:36 ON 27 JUL 2007

FILE 'BIOSIS' ENTERED AT 12:49:36 ON 27 JUL 2007
 Copyright (c) 2007 The Thomson Corporation
 PROCESSING COMPLETED FOR L101

10/501176

PROCESSING COMPLETED FOR L131
L132 29 DUP REM L101 L131 (3 DUPLICATES REMOVED)
ANSWERS '1-26' FROM FILE HCPLUS
ANSWERS '27-29' FROM FILE BIOSIS

INVENTOR SEARCH RESULTS

=> d 1132 1-29 ibib ed ab

L132 ANSWER 1 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2002:301209 HCPLUS Full-text
 DOCUMENT NUMBER: 137:241872
 TITLE: Alteration of lymphocyte trafficking by sphingosine-1-phosphate receptor agonists
 AUTHOR(S): Mandala, Suzanne; Hajdu, Richard; Bergstrom, James; Quackenbush, Elizabeth; Xie, Jenny; Milligan, James; Thornton, Rosemary; Shei, Gan-Ju; Card, Deborah; Keohane, Carolann; Rosenbach, Mark; Hale, Jeffrey; Lynch, Christopher L.; Rupprecht, Kathleen; Parsons, William; Rosen, Hugh
 CORPORATE SOURCE: Departments of Immunology and Rheumatology, Merck Res. Laboratories, Rahway, NJ, 07065, USA
 SOURCE: Science (Washington, DC, United States) (2002), 296 (5566), 346-349
 CODEN: SCIEAS; ISSN: 0036-8075
 PUBLISHER: American Association for the Advancement of Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 23 Apr 2002
 AB Blood lymphocyte nos., essential for the development of efficient immune responses, are maintained by recirculation through secondary lymphoid organs. We show that lymphocyte trafficking is altered by the lysophospholipid sphingosine-1-phosphate (S1P) and by a phosphoryl metabolite of the immunosuppressive agent FTY720. Both species were high-affinity agonists of at least four of the five S1P receptors. These agonists produce lymphopenia in blood and thoracic duct lymph by sequestration of lymphocytes in lymph nodes, but not spleen. S1P receptor agonists induced emptying of lymphoid sinuses by retention of lymphocytes on the abluminal side of sinus-lining endothelium and inhibition of egress into lymph. Inhibition of lymphocyte recirculation by activation of S1P receptors may result in therapeutically useful immunosuppression.
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L132 ANSWER 2 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
 ACCESSION NUMBER: 2000:618629 HCPLUS Full-text
 DOCUMENT NUMBER: 133:275898
 TITLE: Efficacy of the echinocandin caspofungin against disseminated aspergillosis and candidiasis in cyclophosphamide-induced immunosuppressed mice
 AUTHOR(S): Abruzzo, George K.; Gill, Charles J.; Flattery, Amy M.; Kong, Li; Leighton, Claire; Smith, Jeffrey G.; Pikounis, V. Bill; Bartizal, Ken; Rosen, Hugh
 CORPORATE SOURCE: Infectious Diseases, Merck Research Laboratories, Rahway, NJ, 07065-0900, USA
 SOURCE: Antimicrobial Agents and Chemotherapy (2000), 44(9), 2310-2318
 CODEN: AMACQ; ISSN: 0066-4804
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 06 Sep 2000
 AB The in vivo efficacy of the echinocandin antifungal caspofungin acetate (caspofungin; MK-0991) was evaluated in models of disseminated aspergillosis and candidiasis in mice with cyclophosphamide (CY)-induced immunosuppression. Caspofungin is a 1,3- β -D-glucan synthesis inhibitor efficacious against a number of clin. relevant fungi including

Aspergillus and Candida species. Models of CY-induced transient or chronic leukopenia were used with once daily administration of therapy initiated 24 h after microbial challenge. Caspofungin was effective in treating disseminated aspergillosis in mice that were transiently leukopenic (significant prolongation of survival at doses of ≥ 20.125 mg/kg of body weight and a 50% protective dose [PD50] of 0.245 mg/kg/day at 28 days after challenge) or chronically leukopenic (50 to 100% survival at doses of ≥ 20.5 mg/kg and PD50s ranging from 0.173 to 0.400 mg/kg/day). Caspofungin was effective in the treatment and sterilization of Candida infections in mice with transient leukopenia with a 99% ED based on reduction in \log_{10} CFU of Candida albicans/g of kidneys of 0.119 mg/kg and 80 to 100% of the caspofungin-treated mice having sterile kidneys at caspofungin doses from 0.25 to 2.0 mg/kg. In Candida-infected mice with chronic leukopenia, caspofungin was effective at all dose levels tested (0.25 to 1.0 mg/kg), with the \log_{10} CFU of C. albicans/g of kidneys of caspofungin-treated mice being significantly lower (>99% reduction) than that of sham-treated mice from day 4 to day 28 after challenge. Also, 70 to 100% of the caspofungin-treated, chronic leukopenic mice had sterile kidneys at caspofungin doses of 0.5 to 1.0 mg/kg from day 8 to 28 after challenge. Sterilization of Candida infections by caspofungin in the absence of host leukocytes provides compelling in vivo evidence for fungicidal activity against C. albicans. Further human clin. trials with caspofungin against serious fungal infections are in progress.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 3 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:566538 HCPLUS [Full-text](#)
DOCUMENT NUMBER: 141:123484
TITLE: Preparation of 1-(amino)indanes and
(1,2-dihydro-3-amino)-benzofurans,
benzothiophenes and indoles as EDG receptor
agonists
INVENTOR(S): Doherty, George A.; Hale,
Jeffrey J.; Milt, Sander G.
PATENT ASSIGNEE(S): Merck Co., Inc., USA
SOURCE: PCT Int. Appl. 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004058149	A2	20040715	WO 2003-US40129	2003 1216
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WO 2004058149	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2509218	A1	20040715	CA 2003-2509218	2003 1216
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AU 2003297232	A1	20040722	AU 2003-297232	

EP 1581509	A2	20051005	EP 2003-814075	2003 1216
<--				
JP 2006511579	T	20060406	JP 2004-563642	2003 1216
<--				
US 2006161005	A1	20060720	US 2005-536730	2005 0527
<--				
US 7220734	B2	20070522	US 2002-435381P	P 2002 1220
<--				
PRIORITY APPLN. INFO.:			WO 2003-US40129	W 2003 1216

OTHER SOURCE(S): MARPAT 141:123484

ED Entered STN: 15 Jul 2004

AB Compds. of formula I [G = C(R4)2, O, S, SO, SO2; X = Ph, alkyl, etc.; Y = (C(R4))p; Z = alkyl, heterocyclo, etc.; A = CO2H, PO3H2, SO3H, tetrazolyl, etc.; each R1 = H, halo, OH, alkyl, alkoxy; R2 = H, halo, OH, alkyl, alkoxy; R3 =H, alkoxy; R2R3 = (substituted) alkylene; R4 = H, alkyl; R5 = halo, alkyl, alkoxy; n = 0-1; p = 1-3] are prepared as EDG receptor agonists. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, II was prepared from azetidine-3-carboxylic acid and the prepared indanone derivative. The prepared compds. had > 100-fold selectivity of EDG1 over EDG3.

L132 ANSWER 4 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:412748 HCPLUS [Full-text](#)
 DOCUMENT NUMBER: 1401423677
 TITLE: Preparation of 3-(tetrahydropyranylamino)cyclo
 pentanecarboxylic acid N-benzylamide
 derivatives and related compounds as
 modulators of chemokine receptor activity
 INVENTOR(S): Butora, Gabor; Mills, Sander G.;
 Pasternak, Alexander; Shankaran, Kothandaraman; Yang, Lihu; Zhou, Changyou;
 Goble, Stephen D.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 261 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041161	A2	20040521	WO 2003-US33972	2003 1024
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WO 2004041161	A3	20050324		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CS, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MU, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

CA 2502174 A1 20040521 CA 2003-2502174

2003
1024

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 AU 2003286701 A1 20040607 AU 2003-286701

2003
1024

<--
 EP 1558243 A2 20050803 EP 2003-777911

2003
1024

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006514003 T 20060427 JP 2004-550126

2003
1024

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 US 2006116421 A1 20060601 US 2005-533326

2005
0502

PRIORITY APPLN. INFO.:

US 2002-422451P P

2002
1030

<--
 WO 2003-US33972 W

2003
1024

OTHER SOURCE(S): MARPAT 140:423677

ED Entered STN: 21 May 2004

AB The title compds. (I) [wherein: X = O, NR20, S, SO, SO2, CR21R22, NSO2R20, NCOR20, NC02R20, CR21CO2R20, CR21OCOR20, CO, OC(Me)20 (where R20 = H, Cl-6 alkyl, benzyl, Ph, C3-6 cycloalkyl, etc.; R21, R22 = H, HO, Cl-6 alkyl, Cl-6 alkoxy, benzyl, Ph, C3-6 cycloalkyl, etc.); R1 = Cl-6 alkyl, Cl-6 alkoxy-CO-6 alkyl, Cl-6 alkyl-S(O)O-2-CO-6-alkyl, N-(un)substituted Cl-6 alkylaminosulfonyl-CO-6alkyl, -(CO-6 alkyl)(C3-7 cycloalkyl)(CO-6 alkyl), HO, CO2R20, heterocycl, cyano, NR20R26, NR26SO2R20, NR26COR21, OCOR20, Ph (where R26 = H, Cl-6 alkyl, benzyl, Ph, etc.); R2, R4, R6 = H, Cl-6 alkyl, CF3, CF30, Cl, Br, Ph; R3 = H, HO, halo, Cl-6 alkyl, Cl-6 alkoxy, , NR20R21, NR20CO2R21, NR20CONR20R21, NR20SO2NR20R21, NR20SO2R21, heterocycl, cyano, CONR20R21, CO2R20, NO2, SR20, SOR20, SO2R20, SO2NR20R21: R5 = Cl-6 alkyl substituted with 1-6 F and optionally substituted with HO, Cl-6 alkoxy or CO-Cl-6 alkyl each substituted with 1-6 fluoro, Cl-6 alkylthio, pyridyl, F, Cl, Br, Ph; R7 = H, Cl-6 alkyl, CF3; R8, R9, R10 = H, (un)substituted Cl-6 alkyl; or R7 and R8 or R8 and R9 may be joined together to form a ring; R11 = H, Cl-6 alkyl, CF3; R27, R28 = o xo, H, Ph, (un)substituted Cl-6 alkyl; R29, R30, R31 = H, Me, HO, CF3, MeO, CF30; or R29 and R9 are connected by a Cl-3alkyl bridge; m, n = 0-2; the dashed line = a single or double bond] and pharmaceutically acceptable salts thereof and individual diastereomers thereof are prepared. These compds. are useful as modulators of the chemokine receptor CCR-2 for (a) treating, ameliorating or controlling or reducing the risk of an inflammatory or immunoregulatory disorder or disease or (b) treating, ameliorating or controlling rheumatoid arthritis (no data). Thus, reductive amination of N-[3,5-bis(trifluoromethyl)benzyl]-3-oxo-1-isopropylcyclopentane-1- carboxamide with 4-

aminotetrahydro-4H-pyran hydrochloride using triacetoxyborohydride in the presence of diisopropylethylamine in CH₂C₂ at room temperature overnight gave 46% N-[3,5-bis(trifluoromethyl)benzyl]-3-(tetrahydro-4H-pyran-4-ylamino)-oxo-1-isopropylcyclopentane-1-carboxamide (II).

L132 ANSWER 5 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:719274 HCAPLUS Full-text
 DOCUMENT NUMBER: 139:246116
 TITLE: Preparation of aminoalkylphosphonates and related compounds as EDG receptor agonists
 INVENTOR(S): Doherty, George A.; Hale, Jeffrey J.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 75 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003074008	A2	20030912	WO 2003-US7262	2003 0225
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WO 2003074008	A3	20040226		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, ML, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2477449	A1	20030912	CA 2003-2477449	2003 0225
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AU 2003218056	A1	20030916	AU 2003-218056	2003 0225
			<--	
EP 1482896	A2	20041208	EP 2003-714037	2003 0225
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005107345	A1	20050519	US 2003-505268	2003 0225
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JP 2005531508	T	20051020	JP 2003-572530	2003 0225
			<--	
PRIORITY APPLN. INFO.:			US 2002-360605P	P 2002 0301

OTHER SOURCE(S): MARPAT 139:246116

ED Entered STN: 14 Sep 2003

AB The present invention encompasses title compds., A-X[CR1R2]mCHNH2[CR3R4]pC(R9)3 (m = 1-4; p = 9-20; X = bond, O, NH, S(O)k, k = 0-2; A = CO2H, PO3H2, PO2H2, SO3H, five membered nitrogen containing heterocycl, etc.; two R1 or R3 groups on adjacent carbon may be joined together to form a double bond; R2, R3, R4 = H, halo, OH, CO2H, Cl-4 alkyl, alkoxy, alkylthio, aryl, etc.; R1-R4 = residing on the same carbon optionally joined together to form a carbonyl group, etc.; R9 = H, halo, OH, Cl-4 alkoxy, alkylthio, C3-7 cycloalkyl, etc.); as well as the pharmaceutically acceptable salts and hydrates thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, preparation of (+/-)-2-amino-4-(4-(octylphenyl))butanol, O-phosphate was described in five steps starting from di-Et 2-acetamido-2-(2-(4- octylphenyl)ethyl)propanedioate.

L132 ANSWER 6 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:719253 HCPLUS Full-text

DOCUMENT NUMBER: 139:245479

TITLE: Preparation of aminoalkylphosphonates and related compounds as EDR receptor agonists

INVENTOR(S): Budhu, Richard J.; Doherty, George A.
; Hale, Jeffrey J.; Lynch, Christopher L.; Mills, Gander G.;PATENT ASSIGNEE(S): Neway, William E., III
Merck & Co., Inc., USASOURCE: PCT Int. Appl., 90 pp.
CODEN: PIXXD2DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003073986	A2	20030912	WO 2003-US5947	2003 0227
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WO 2003073986	A3	20040527		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VI, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2477423	A1	20030912	CA 2003-2477423	2003 0227

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AU 2003217764	A1	20030916	AU 2003-217764	2003 0227
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EP 1482895	A2	20041208	EP 2003-713727	

2003
0227

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 NC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
 EE, HU, SK

JP 2005531506 T 20051020 JP 2003-572508

2003
0227

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US 2006089334 A1 20060427 US 2004-505257

2004
0819

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PRIORITY APPLN. INFO.: US 2002-360663P P

2002
0301

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WO 2003-US5947 W

2003
0227

OTHER SOURCE(S): MARPAT 139:245479

ED Entered STN: 14 Sep 2003

AB AX(CR1R2)mCH(NH2)(CR3R4)nArBC [A = CO2H, P(O)(OH)2, PH(O)(OH), SO3H, P(O)R5OH, 5-membered N heterocycle; X = bond, O, NH, S, S(O), SO2; R1-R4 = H, halogen, OH, CO2H, (un)substituted alkyl, alkoxy, alkylthio, aryl; R1R2, R3R4 = O; m = 1-4; n = 0-4; R5 = (un)substituted alkyl, aryl; Ar = Ph, naphthyl; C = (un)substituted alkyl, alkoxy, acyl, hydroxyalkyl, Ph, heterocyclic, bond; when C = bond, B = (un)substituted Ph, alkyl, alkenyl, alkynyl, OH, SH, acyl, CONH2, NH2; when C = Ph, heterocyclic, B = (un)substituted alkyl, alkoxy, acyl, CO, CH(OH), CGH4, heterocyclic; when C = alkyl, alkoxy, acyl, B = (un)substituted C6H4, heterocyclic] were prepared for use as EDG receptor antagonists useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection (no data). Thus, 4-Me(CH2)7C6H4CH2CH2C(NHAc)(CO2Et)2 was hydrolyzed and decarboxylated to 4-Me(CH2)7C6H4CH2CH2CH(NH2)CO2H which was N-benzylloxycarbonylated, reduced to 4-Me(CH2)7C6H4CH2CH2CH(NHCbz)CH2OH, phosphorylated (MeCH)2NP(OCH2Ph)2, and deblocked to give 4- Me(CH2)7C6H4CH2CH2CH(NH2)CH2OP(O)(OH)2.

L132 ANSWER 7 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:591193 HCPLUS Full-text

DOCUMENT NUMBER: 139:149520

TITLE: Preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists
 INVENTOR(S): Bugianesi, Robert L.; Doherty, George A.; Gentry, Amy; Hale, Jeffrey J.; Lynch, Christopher L.; Mills, Sander G.; Neway, William E., III
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 112 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003062252	A1	20030731	WO 2003-US1196	2003 0115

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,

KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
 MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, TJ, TM, TH, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL,
 PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO,
 GW, ML, MR, NE, SN, TD, TG

CA 2472715 A1 20030731 CA 2003-2472715

2003
0115

EP 1470137 A1 20041027 EP 2003-705779

2003
0115

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 NC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
 EE, HU, SK

JP 2005515259 T 20050526 JP 2003-562129

2003
0115

US 2005033055 A1 20050210 US 2004-500895

2004
0707

PRIORITY APPLN. INFO.:
 ED Entered STN: 01 Aug 2003
 AB Title compds. I [Ar = (un)substituted Ph, naphthyl; A = CO₂H, P(O)(OH)₂, P(O)OH, SO₃H,
 1H-tetrazol-5-yl; R₁, R₂ = H, halogen, OH, CO₂H, (un)substituted alkyl; R₃ = H,
 (un)substituted alkyl; m, n = 0, 1] were prepared for use as Edg receptor agonists,
 useful for treating immune mediated diseases and conditions, such as bone marrow, organ
 and tissue transplant rejection (no data). Thus, 3-pyrrolidinol was converted to di-Et
 3-hydroxypyrrrolidin-3- ylphosphonate and treated with 4-nonylbenzaldehyde, followed by
 ester hydrolysis to give 1-(4-nonylbenzyl)-3-hydroxypyrrrolidine-3- phosphonic acid.
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L132 ANSWER 8 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:591190 HCPLUS Full-text
 DOCUMENT NUMBER: 139:149756
 TITLE: Preparation of N-(benzyl)aminoalkylcarboxylate
 s, phosphinates, phosphonates and tetrazoles
 as EDG receptor agonists
 INVENTOR(S): Doherty, George A.; Li, Zhen
 ; Hale, Jeffrey J.; Mills,
 Sander G.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 152 pp.
 CODEN: PIKXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2003062248 A2 20030731 WO 2003-US10592003
0114

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WO 2003062248 A3 20060302

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,
 GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
 KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
 MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, TJ, TM, TH, TR, TT, TZ, UA, UG, US, UZ, VC,
 VI, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL,
 PT, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ,
 GW, ML, MR, NE, SN, TD, TG

CA 2472713 A1 20030731 CA 2003-2472713

2003
0114

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JP 2005527494 T 20050915 JP 2003-562125

2003
0114

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EP 1575964 A2 20050921 EP 2003-702110

2003
0114

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
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 EE, HU, SK

US 2005020837 A1 20050127 US 2004-500811

2004
0707

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PRIORITY APPLN. INFO.: US 2002-349995P P

2002
0118

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WO 2003-US1059 W

2003
0114

OTHER SOURCE(S): MARPAT 139:149756

ED Entered STN: 01 Aug 2003

AB The present invention encompasses preparation of compds., A(CR1R2)nNHC(R3Ar((R4)0-4)BC
 (Ar = Ph, naphthyl, etc.; A = CO2H, 1H-tetrazol-5-yl, PO3H2, PO2H2, SO3H, PO(R5)OH, R5
 = Cl-4 alkyl, hydroxyl-4-alkyl, Ph, COCl-3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 =
 independently selected from H, halo, OH, CO2H, Cl-6 alkyl, Ph, etc.; R3 = H, Cl-4
 alkyl, etc.; R4 = CO2H, Cl-4 alkyl, sulfonylalkyl, alkoxy, alkoxy(cyclopropyl, aryl,
 aryloxy, etc.; C = Cl-8 alkyl, Cl-8 alkoxy, heterocycl, etc.; B = (un)substituted Ph,
 (un)substituted C5-16 alkyl, (un)substituted C5-16 alkenyl, (un)substituted C5-16
 alkynyl, etc.), as well as the pharmaceutically acceptable salts and hydrates thereof.
 The compds. are useful for treating immune mediated diseases and conditions, such as
 bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods
 of use are included. Thus, reaction of 3-aminopropylphosphonic acid with 4-
 (decyloxy)benzaldehyde in presence of Bu4NOH and sodium cyanoborohydride in MeOH for 1h
 at 50° gave title compound, N-((4-decyloxy)benzyl)-3-aminopropylphosphonic acid.

L132 ANSWER 9 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:590932 HCPLUS Full-text

DOCUMENT NUMBER: 139:149413

TITLE: Selective S1P1/Edg1 receptor agonists

INVENTOR(S): Doherty, George A.; Forrest, Michael J.; Hajdu, Richard; Hale, Jeffrey J.; Li, Zhen; Mandala, Suzanne M.; Mills, Sander G.; Rosen, Hugh; Scialicci, Edward M.

PATENT ASSIGNEE(S): Merck Co., Inc., USA
SOURCE: PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
-----	A2	20030731	WO 2003-US1120	2003 0114
WO 2003061567	A3	20031224	-----	-----
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	-----	-----	-----	-----
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	-----	-----	-----	-----
US 2004058894	A1	20040325	US 2003-339380	2003 0109
CA 2472680	A1	20030731	CA 2003-2472680	2003 0114
EP 1469863	A2	20041027	EP 2003-731917	2003 0114
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, NC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	-----	-----	-----	-----
AU 2003216054	B2	20070104	AU 2003-216054	2003 0114
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US 2005070506	A1	20050331	US 2004-501176	2004 0712
PRIORITY APPLN. INFO.:			US 2002-349991P	P
				2002 0118
			US 2002-362566P	P
				2002 0307
			US 2002-382933P	P
				2002

ED Entered STN: 01 Aug 2003

AB The present invention encompasses a method of treating an immunoregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating said immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1P3/Edg3 receptor, said compound administered in an amount effective for treating said immunoregulatory abnormality. Thus, 4-HOC6H4CHO was treated with Me(CH₂)₇I to give 4-Me(CH₂)₇OCH₂H4CHO which was treated with H2N(CH₂)₃P(O)(OH)₂ to give 4-Me(CH₂)₇OCH₂H4CH₂NH(CH₂)₃P(O)(OH)₂ which had an EC₅₀ for S1P1 agonism of 1.5 nM and for S1P3 agonism of 6.0 nM.

L132 ANSWER 10 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:171909 HCPLUS Full-text

DOCUMENT NUMBER: 136:216887

TITLE: Preparation of phosphate derivatives as immunosuppressants

INVENTOR(S): Mandala, Suzanne; Bergstrom, James;
Rajdu, Richard; Rosen, Hugh;
Parsons, William H.; Card, Deborah J.;
MacCoss, MalcolmPATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 59 pp.DOCUMENT TYPE: Patent
LANGUAGE: EnglishFAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002018395	A1	20020307	WO 2001-US26789	2001 0828
			<--	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2421893	A1	20020307	CA 2001-2421893	2001 0828
			<--	
AU 2001085331	A5	20020313	AU 2001-85331	2001 0828
			<--	
EP 1315735	A1	20030604	EP 2001-964485	2001 0828
			<--	

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004507552 T 20040311 JP 2002-523910

2001
0828

US 2002091105 A1 20020711 US 2001-942411

2001
0830

US 6437165 B2 20020820 US 2000-229438P P

2000
0831

<-- WO 2001-US26789 W

2001
0828

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OTHER SOURCE(S): MARPAT 136:216887

ED Entered STN: 08 Mar 2002

AB Immunoregulatory compds. [I; wherein: X = O, S, NR1, (CH₂)₁₋₂, optionally substituted with 1-4 halo groups (R1 = H, (Cl-C4)alkyl, (Cl-C4)haloalkyl); R1a = H, OH, (Cl-C4)alkyl, (Cl-C4)alkyloxy, the alkyl and alkyloxy portions being optionally substituted with 1-3 halo groups; R1b = H, OH, (Cl-C4)alkyl, (Cl-C4)haloalkyl; R2 = H, (Cl-C4)alkyl, (Cl-C4)haloalkyl; and R3 = H, OH, halo, (Cl-C4)alkyloxy, (Cl-C4)haloalkyloxy], as well as the pharmaceutically acceptable salts and hydrates thereof, are disclosed. Thus, a multistep preparation of 3-amino-3-hydroxymethyl-5-(4-octylphenyl)pentylphosphonic acid is described. The compds. are useful as immunosuppressants, particularly in the treatment of bone marrow and organ transplant rejection. Pharmaceutical compns. and methods of use are included.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 11 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:12274 HCAPLUS Full-text

DOCUMENT NUMBER: 134:86272

TITLE: Preparation of pyrimidine derivatives as Src-family protein tyrosine kinase inhibitor compounds

INVENTOR(S): Hunt, Julianne A.; Mills, Sander G.; Sinclair, Peter J.; Zaller, Dennis M.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 181 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001000214	A1	20010104	WO 2000-US17472	2000 0626

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ,
LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
SN, TD, TG

CA 2376951	A1	20010104	CA 2000-2376951	
				2000
				0626
			<--	
US 6316444	B1	20011113	US 2000-603699	
				2000
				0626
			<--	
EP 1194152	A1	20020410	EP 2000-944858	
				2000
				0626
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503354	T	20030128	JP 2001-505923	
				2000
				0626
			<--	
PRIORITY APPLN. INFO.:			US 1999-141597P	P
				1999
				0630
			<--	
			WO 2000-US17472	W
				2000
				0626
			<--	

OTHER SOURCE(S): MARPAT 134:86272

ED Entered STN: 05 Jan 2001

AB What are claimed are pyrimidine compds. (shown as I), or their pharmaceutically acceptable salts, hydrates, solvates, crystal forms and individual diastereomers, and pharmaceutical compns. including the same and their use as inhibitors of tyrosine kinase enzymes and consequently their use in the prophylaxis and treatment of protein tyrosine kinase-associated disorders, such as immune diseases, hyperproliferative disorders and other diseases in which inappropriate protein kinase action is believed to play a role, such as cancer, angiogenesis, atherosclerosis, graft rejection, rheumatoid arthritis and psoriasis. In I, R1, R2 = independently H, halo, OH, SH, CN, NO₂, alkyl, alkoxy, acyloxy, alkoxy carbonyloxy, carbamoyloxy, alkythio, sulfinyl, sulfonyl, acyl, alkoxy carbonyl, carbamoyl, amino, acylamino, alkoxy carbonylamino, ureido, sulfamoyl, sulfonylamino, or R1 and R2 can join together to form a fused methylenedioxy ring or a fused 6-membered aromatic ring; terms such as 'alkyl' here and below are further defined in the claims. R3, R5 = independently H, Cl-C₆-alkyl unsubstituted or substituted with 1-3 substituents, aryl (Ph or naphthyl unsubstituted or substituted with 1-3 substituents), or R3 and R5 taken together can represent :O. R4 = H, Cl-C₆-alkyl, Cl-C₆-alkoxy, or R4 and X can join together to form a 5- or 6-membered ring with substituted methylene or ethylene. X1, X2, X3, X4 in -X1:X2:X3:X4- are substituted CH or N where 0-2 of X1, X2, X3, X4 are N. X5 = N, CH. R7 = H, alkyl, alkoxy, amino. X = O, S, SO, SO₂, imino. Z = C=O, SO₂, substituted P(=O)(OH) or a single bond. 44 Example preps. are given, but no preparative method is claimed and no data relating to the usefulness of the compds. are given.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 12 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:12273 HCPLUS Full-text

DOCUMENT NUMBER: 134:86271

TITLE: Preparation of pyrimidine derivatives as Src-family protein tyrosine kinase inhibitor compounds

INVENTOR(S): Armstrong, Helen M.; Beresis, Richard; Goulet, Joung L.; Holmes, Mark A.; Hong, Xingfang; Mills, Sander G.; Parsons, William H.; Sinclair, Peter J.; Steiner, Mark G.; Wong, Frederick; Zaller, Dennis M.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 470 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000213	A1	20010104	WO 2000-US17443	2000 0626
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2383546	A1	20010104	CA 2000-2383546	2000 0626
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EP 1206265	A1	20020522	EP 2000-941701	2000 0626
<--				
EP 1206265	B1	20031112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
US 6498165	B1	20021224	US 2000-604305	2000 0626
<--				
JP 2003523942	T	20030812	JP 2001-505922	2000 0626
<--				
AT 253915	T	20031115	AT 2000-941701	2000 0626
<--				
PRIORITY APPLN. INFO.:			US 1999-141639P	P
				1999 0630
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			WO 2000-US17443	W
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OTHER SOURCE(S): MARPAT 134:86271

ED Entered STN: 05 Jan 2001

AB What are claimed are pyrimidine compds. (shown as I), or their pharmaceutically acceptable salts, hydrates, solvates, crystal forms and individual diastereomers, and pharmaceutical compns. including the same and their use as inhibitors of tyrosine kinase enzymes and consequently their use in the prophylaxis and treatment of protein tyrosine kinase-associated disorders, such as immune diseases, hyperproliferative disorders and other diseases in which inappropriate protein kinase action is believed to play a role, such as cancer, angiogenesis, atherosclerosis, graft rejection, rheumatoid arthritis and psoriasis. In I, R1, R2 = independently H, halo, OH, SH, CN, NO₂, alkyl, alkoxy, acyloxy, alkoxycarbonyloxy, carbamoyloxy, alkythio, sulfinyl, sulfonyl, acyl, alkoxy carbonyl, carbamoyl, amino, acylamino, ureido, sulfamoyl, sulfonyl amino, or R1 and R2 can join together to form a fused methylenedioxy ring or a

fused 6-membered aromatic ring; terms such as 'alkyl' here and below are further defined in the claims. R3, R5 = independently H, Cl-C6-alkyl unsubstituted or substituted with 1-3 substituents, aryl, or R3 and R5 taken together can represent :O; R3 or R5 can represent a 2 or 3 C methylene bridge forming a ring of 5-8 atoms fused to the A ring. R4 = H, Cl-C6-alkyl, Cl-C6-alkoxy. X1, X2, X3, X4 in -X1:X2:X3:X4- are substituted or unsubstituted CH or N where 0-2 of X1, X2, X3, X4 are N. X5, X6 = independently N, C, optionally substituted CH. A ring = Ph, naphthyl, pyridyl, pyrazinyl, pyrimidinyl, pyrrolyl, thiényl, oxazolyl, isoxazolyl, thiazolyl, pyrazolyl, triazolyl, tetrazolyl, furanyl, benzothiophenyl, benzofuranyl, indolyl, imidazolyl, benzimidazolyl, thiadiazolyl. R7, R8, R9, R10 = independently H, halo, OH, SH, CN, NO₂, N₃, N₂BF₄-, alkyl, alkoxy, alkylthio, sulfinyl, sulfonyl, Cl-C6-alkyl, Cl-C6-perfluoroalkyl, acyl, alkoxyacarbonyl, carbamoyl, acyloxy, alkoxyacarbonyloxy, carbamoyloxy, amino, acylamino, ureido, sulfamoyl, sulfonylamino, two of R7, R8, R9, and R10 when on adjacent carbons join together to form a methylenedioxy bridge. N = 0-2. More than 500 example preps. are given, but no preparative method is claimed and no data relating to the usefulness of the compds. are given.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:900457 HCAPLUS Full-text
DOCUMENT NUMBER: 134:56576
TITLE: Preparation of piperidinylmethylcyclopentanes
as modulators of CCR-5 and/or CCR-3 chemokine
receptors
INVENTOR(S): Fink, Paul E.; Hilfiker, Kerry A.; Loebach,
Jennifer L.; MacCoss, Malcolm; Mills,
Sander G.; Shen, Dong-ming; Oates, Bryan
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 266 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000076514	A1	20001221	WO 2000-US15769	2000 0608 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JE, KE, KG, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM
RN: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
SI, TD, TG

US 6432981	B1	20020813	US 2000-590484	2000 0608 <--
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PRIORITY APPLN. INFO.:	US 1999-138761P	P
		1999 0611

OTHER SOURCE(S): MARPAT 134:56576

ED Entered STN: 22 Dec 2000

AB Title compds. I [X = alkylcycloalkylalkyl, alkenyl, alkynyl, alkyl-Y-alkyl, where Y = bond, O, SO₂, NR10, NR10SO₂, SO₂NR10, S, and SO; R10 = H, (un)substituted alkyl,

benzyl, alkylcycloalkyl; R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, etc; R2 = H, OH; R3 = (un)substituted Ph and heterocycle; Z = (CR4R5)n where n = 1-4; R4 and R5 = independently selected from H, OH, F, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, Ph, etc., or R4 and R5 may be joined to form a 3-8 membered (un)substituted saturated ring; R7 = H, OH, halo, (un)substituted alkyl; R8 = H, (un)substituted cycloalkyl, Ph, naphthyl, biphenyl, and heterocycle; W = (CH2)x and A = (CH2)y where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compd II-HCl was prepared in 5 steps from (+)-trans-3-formyl-4-phenylcyclopentan-1-one. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:900456 HCAPLUS Full-text
DOCUMENT NUMBER: 134:56575
TITLE: Preparation of piperidinylmethylcyclopentanes
as modulators of CCR-5 and/or CCR-3 chemokine
receptors
INVENTOR(S): Finke, Paul E.; Loebach, Jennifer L.; MacCoss,
Malcolm; Mills, Sander G.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl. 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000076513	A1	20001221	WO 2000-US15765	2000 0608

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CI, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UR, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
SI, TD, TG

US 6506777	B1	20030114	US 2000-589972	2000 0608
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PRIORITY APPLN. INFO.:	US 1999-138872P	P
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1999 0611

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OTHER SOURCE(S): MARPAT 134:56575

ED Entered STN: 22 Dec 2000

AB Title compds. I [X = (un)substituted alkyl-Y-alkyl where Y = CO, CO2, OCO, OCONR9,
NR9CO2, NR9CONR10; R9 = H, (un)substituted alkyl, cycloalkyl, alkylcycloalkyl, alkenyl,
alkynyl, benzyl or phenyl; R10 = H, (un)substituted alkyl, benzyl or phenyl; R9 and R10
may be joined together to form a 5-8 membered (un)substituted ring; R1 = CO2H, NO2,
tetrazolyl, etc.; R2 = H, OH; R3 = (un)substituted Ph and heterocycle; Z = (CR4R5)n
where n = 1-4; R4 and R5 = independently H, OH, F, (un)substituted alkyl, cycloalkyl,
alkenyl, heterocycle, etc.; R4 and R5 may be joined together to form a 3-8 membered

(un)substituted saturated ring; R7 = H, OH, halo, (un)substituted alkyl; R8 = H, (un)substituted Ph, naphthyl, biphenyl, and heterocycle; W = $(CH_2)^x$ and A = $(CH_2)^y$ where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compd II-HCl was prepared in 8 steps from Et trans-3-hydroxymethyl-4-phenylcyclopentylacetate. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L132 ANSWER 15 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:900455 HCPLUS Full-text
 DOCUMENT NUMBER: 134:56574
 TITLE: Preparation of aminopiperidinylmethylcyclopentanes as modulators of CCR-5 and/or CCR-3 chemokine receptors
 INVENTOR(S): Fink, Paul E.; Chapman, Kevin T.; MacCoss, Malcolm; Mills, Sander G.; Oates, Bryan
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 223 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000076512	A1	20001221	WO 2000-US15755	2000 0608

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
 CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
 TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
 CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE, BE, BJ, CF, CI, CM, GA, GN, GW, ML, MR, NE,
 SN, TD, TG

US 6500844	B1	20021231	US 2000-590487	2000 0608
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PRIORITY APPLN. INFO.: US 1999-139067P P

1999
0611

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OTHER SOURCE(S): MARPAT 134:56574

ED Entered STN: 22 Dec 2000

AB Title compds. I (X = CONR9, NR9CO, OCONR9, NR9CO2, and NR9CONR10; R9 = H, alkyl, cycloalkyl, alkylcycloalkyl, benzyl, Ph, etc.; R10 = H, alkyl, benzyl, or (un)substituted phenyl; R9 and R10 may be joined together to form a 5-8 membered (un)substituted ring; Y = bond, CO, CO2, SO2NR9, alkyl, CONR9, C(S)NR9; Z = bond, NR9, O, alkyl; R1 = (un)substituted Ph, naphthyl, alkyl, cycloalkyl, heterocycle other than tetrazolyl, etc. with provision when Z = NR9, then R9 and R1 may be joined together to form a 5-8 membered (un)substituted cycloalkyl or heterocyclic ring; R2 = H, OH, or R2 and Z may be joined together to form a double bond; R3 = (un)substituted Ph or heterocycle; R7 = H, (un)substituted alkyl, OH, halo; R8 = alkyl, cycloalkyl, alkenyl, (un)substituted Ph, naphthyl, or heterocycle, etc.; W = $(CH_2)^x$ and A = $(CH_2)^y$ with

proviso that sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compound II was prepared in 7 steps from 4-oxo-2-phenylcyclopentanoic acid. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:900454 HCAPLUS Full-text
DOCUMENT NUMBER: 134:56573
TITLE: Preparation of piperidinylmethylcyclopentanes
as modulators of CCR-5 and/or CCR-3 chemokine
receptors
INVENTOR(S): Fink, Paul E.; MacCoss, Malcolm; Mills,
Sander G.; Oates, Bryan
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl. 277 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076511	A1	20001221	WO 2000-US15657	2000 0608

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
SI, TD, TG

US 6538002	B1	20030325	US 2000-591631	2000 0608
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PRIORITY APPLN. INFO.:	US 1999-138763P	P
		1999 0611

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OTHER SOURCE(S): MARPAT 134:56573

ED Entered STN: 22 Dec 2000

AB Title compds. I [X = (un)substituted alkenyl, alkynyl, alkyl-Q-alkyl, wherein Q = bond, O, SO₂, NR10, NR10SO₂, SO2NR10, S, SO and R10 = H, alkyl, benzyl, Ph, etc; Y = bond, CO, CO₂, OCO, SO₂, alkyl, COR9, NR9CO, CSNR9, and NR9CS, wherein R9 = H, alkyl, cycloalkyl, benzyl, (un)substituted Ph, etc.; Z = bond, NR9, O, alkyl; R1 = (un)substituted Ph, naphthyl, heterocycle, alkyl, etc., or when Z = NR9, then R9 and R1 may be joined together to form a (un)substituted 5-8 membered alkyl or heterocyclic ring; R2 = H, OH, or R2 and Z may be joined together to form a double bond; R3 = (un)substituted Ph or heterocycle; R7 = H, (un)substituted alkyl, OH, halo, Ph or R7 and R8 may be linked together through X to form a substituted 5-membered spirocycloalkyl or spiroheterocyclic derivative; R8 = H, cycloalkyl, Ph, naphthyl, biphenyl and (un)substituted heterocycle; W = (CH₂)_x and A = (CH₂)_y where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis,

dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compound II was prepared in 7 steps from 4-oxo-2-phenylcyclopentanoic acid. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 17 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:725459 HCAPLUS Full-text
DOCUMENT NUMBER: 133:296373
TITLE: Preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine modulators of chemokine receptor activity
INVENTOR(S): Caldwell, Charles; Chapman, Kevin; Hale, Jeffrey; Kim, Dooseop; Lynch, Christopher; MacCoss, Malcolm; Mills, Sander G.; Willoughby, Christopher; Berk, Scott; Kim, Ronald M.
PATENT ASSIGNEE(S): March and Co., Inc., USA
SOURCE: PCT Int. Appl., 202 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059498	A1	20001012	WO 2000-US9074	2000 0405

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CI, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,
TD, TG

US 6498161	B1	20021224	US 2000-543019	2000 0404
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PRIORITY APPLN. INFO.:	US 1999-128172P	P
		1999 0406

OTHER SOURCE(S): MARPAT 133:296373

ED Entered STN: 13 Oct 2000

AB The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, SO2NH(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un)substituted phenyl; R2 = (un)substituted piperidinyl, tetrahydropyridinyl, piperazinyl, or 1-oxa-8-azaspiro[4.5]decyl; R3 = (un)substituted Ph or heterocyclyl; R4 = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R5 and R6 = independently H or (un)substituted alkyl; or R4 and R5 may be joined together to form an (un)substituted C3-8 cycloalkyl ring; n = 1-3] were prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5 and/or CCR-3. For example, 2-(R)-((3-(R)-formyl)-4-(S)-3-fluorophenylpyrrolidinyl-1-yl)-3-cyclobutanepropionic acid benzyl ester (preparation given) was treated with Pd/C and dissolved in ClCH2CH2Cl. 4-[N-(pyrimid-2-yl)-N-(prop-

1- yl)aminopiperidine•HCl (4-step preparation given), NaBH(OAc)3, and TEA were added, followed by di-tert-butyl dicarbonate, to give II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of < 1 μ M. The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:725458 HCAPLUS Full-text
DOCUMENT NUMBER: 133:296372
TITLE: Preparation of 3-phenyl-4-
(heterocyclylmethyl)pyrrolidine modulators of
chemokine receptor activity
INVENTOR(S): Berk, Scott; Caldwell, Charles; Chapman,
Kevin; Hale, Jeffrey; Lynch, Christopher;
Maccoss, Malcolm; Millis, Sander G.;
Willoughby, Christopher
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 200 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000059497	A1	20001012	WO 2000-US9059	2000 0405

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH,
CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,
TD, TG

US 6399619	B1	20020604	US 2000-542898
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0404

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PRIORITY APPLN. INFO.:	US 1999-128174P	P
		1999 0406

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OTHER SOURCE(S): MRPAT 133:296372

ED Entered STN: 13 Oct 2000

AB The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, SO2NH(alkyl)R9, SO2NHCO(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un)substituted phenyl; R2 = (un)substituted piperidinyl, tetrahydropyridinyl, or piperazinyl; R3 = (un)substituted Ph or heterocycl; R4 = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocycl, cyclohexenyl, etc.; R5 and R6 = independently H or (un)substituted alkyl; or R4 and R5 may be joined together to form an (un)substituted C3-8 cycloalkyl ring; n = 1-3] were

prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5 and/or CCR-3. For example, EthNH2 and 1-tert-butoxycarbonyl-4-piperidone were reacted in the presence of DIEA and reduced with NaBH(OAc)3 to give 4-(N-ethylamino)-1-tert-butoxycarbonylpiperidine (97%). Addition of carbonyldimidazole and 3,4-difluorobenzylamine to the piperidine followed by deprotection with TFA afforded 4-(N-(N-(3,4-difluorobenzyl)carbamoyl)-N- ethylamino)piperidine-TFA (45%). Coupling the deprotected piperidine with the aldehyde 2-(R)-3-(R)-formyl-4-(S)- phenylpyrrolidin-1-yl)-2-(cyclohexyl)acetic acid 4-methoxybenzyl ester (preparation given) in the presence of DIEA followed by reduction with NaBH(OAc)3 gave II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of < 1 μ M. The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L132 ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:1635463 HCAPLUS Full-text
DOCUMENT NUMBER: 131:243191
TITLE: Spiro-substituted azacycles as modulators of chemokine receptor activity
INVENTOR(S): Mills, Sander G.; MacCoss, Malcolm;
Springer, Martin S.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 97 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5962462	A	19991005	US 1997-989947	1997 1212
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US 1996-32735P P 1996 1213				
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US 1996-33558P P 1996 1220				
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OTHER SOURCE(S): MARPAT 131:243191

ED Entered STN: 07 Oct 1999

AB The invention is directed to spiro-substituted azacycles which are useful as modulators of chemokine receptor activity. Specifically, I [R1 = H, (un)substituted alk(en)ynyl; W = bond, (un)substituted alkylene; Q = (un)substituted NH, O, S, S(O), SO2; X = bond, (un)substituted alkylene, S, S(O), NHCO, OC(O), etc.; YZ = fused aryl or heteroaryl nucleus; m, n = 0 to 5; (m+n) = 1 to 5] were prepared. The compds. are useful as modulators of the chemokine receptors CCR-1, CCR-2, CCR-2B, CCR-3, CCR-4, CCR-5, CXCR-3, and/or CXCR-4 (no data), and are thereby useful as antiinflammatory and immunomodulating agents. Use for the treatment of HIV infection and/or AIDS is claimed specifically. For instance, 1'-methylspiro[indoline-3,4'-piperidine] underwent a sequence of N-benzoyloxycarbonylation (71%), N'-demethylation (73%), reductive N'-alkylation with a corresponding polyfunctional aldehyde, and removal of the benzoyloxycarbonyl protecting group, to give title compound II.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE

L132 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:574297 HCAPLUS Full-text
 DOCUMENT NUMBER: 115:174297
 TITLE: FK-506 and cyclosporin A: selective inhibition of calcium ionophore-induced polymorphonuclear leukocyte degranulation
 AUTHOR(S): Forrest, Michael J.; Jewell, Marvin E.; Koo, Gloria C.; Sigal, Nolan H.
 CORPORATE SOURCE: Dep. Immunol. Res., Merck Sharp and Dohme Res. Lab., Rahway, NJ, 07065, USA
 SOURCE: Biochemical Pharmacology (1991), 42(6), 1221-8
 CODEN: BCPA6; ISSN: 0006-2952
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 01 Nov 1991
 AB This paper investigates the abilities of FK-506 and cyclosporin A (CsA) to inhibit human polymorphonuclear leukocyte (PMNL) degranulation. PMNLs, purified from human blood, were stimulated in vitro with A23187, ionomycin, the complement derived peptide CsA, formyl-methionylleucinylphenylalanine (FMLP) or phorbol myristate acetate (PMA). Degranulation was assessed by measuring the release of either lactoferrin or N-acetyl- β -D- glucosaminidase (NAG). Both FK-506 and CsA produced a concentration-related inhibition of degranulation induced by either A23187 or ionomycin but did not affect CsA-, FMLP- or PMA-induced degranulation. The IC50 values for inhibition of degranulation (approx. 0.7 nM for FK-506 and 33.7 nM for CsA) are very close to the published values for inhibition of human T-cell proliferation. Removal of calcium from the incubation medium with EGTA totally inhibited calcium ionophore-induced degranulation but had no effect against CsA-, FMLP- or PMA-induced degranulation. Preincubation of PMNLs with actinomycin D or cycloheximide did not affect either A23187- or PMA-induced degranulation. Non-immunosuppressive analogs of CsA were ineffective at inhibiting degranulation. Rapamycin, a macrolide structurally related to FK-506, did not inhibit degranulation but it did antagonize the inhibition produced by FK-506. Given the similar profiles of activity of FK-506 and CsA in neutrophils and T cells, the authors conclude that similar activation or signal transduction pathways may be present in both T cells and neutrophils. Because A23187-induced PMNL degranulation was not sensitive to either actinomycin D or cycloheximide, it is apparent that the signal transduction pathways ultimately control different cellular functions.

L132 ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:61838 HCAPLUS Full-text
 DOCUMENT NUMBER: 114:61838
 TITLE: Process for synthesis of FK-506 C10-C18 intermediates
 INVENTOR(S): Jones, Todd K.; Mills, Sander G.; Desmond, Richard
 PATENT ASSIGNEE(S): March and Co., Inc., USA
 SOURCE: U.S., 11 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4940797	A	19900710	US 1989-327848	1989 0323
EP 389244	A1	19900926	EP 1990-302981	1990
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0320

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R: CH, DE, FR, GB, IT, LI, NL
 CA 2012885 A1 19900923 CA 1990-2012885

1990
 0322

JP 03014529 A 19910123 JP 1990-72272

1990
 0323

PRIORITY APPLN. INFO.: US 1989-327848 A

1989
 0323

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OTHER SOURCE(S): MARPAT 114:61838

ED Entered STN: 23 Feb 1991

AB The optically pure C10-C18 fragment of the immunosuppressant FK-506 was prepared by an improved process from I. (Me₃C₆O)CH₂CHMeCH₂CH(OR)CH(BzO)CH(OR)CH₂CHMeOCH₂Ph (II; R = H) (preparation given) was converted to II where R = Me.

L132 ANSWER 22 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:164203 HCPLUS Full-text
 DOCUMENT NUMBER: 114:164203
 TITLE: Preparation of substituted oxazolidinone as
 C8-18 fragment of FK-506
 INVENTOR(S): Jones, Todd K.; Mills, Sander G.;
 Desmond, Richard
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 398474	A2	19901122	EP 1990-302982	1990 0320
EP 398474	A3	19910320		<--
R: CH, DE, FR, GB, IT, LI, NL CA 2012884	A1	19900922	CA 1990-2012884	1990 0322
JP 03135969	A	19910610	JP 1990-72273	1990 0323
JP 06062589 US 5155228	B	19940817		<--
	A	19921013	US 1991-702441	1991 0516
PRIORITY APPLN. INFO.:			US 1989-327849	A
				1989 0323
			US 1990-559434	B1
				1990 0725
				<--

OTHER SOURCE(S): MARPAT 114:164203
 ED Entered STN: 03 May 1991
 AB Title compds. I (P, Pl = hydroxy protectant; R1, R2 = H, (substituted Cl-4 alkyl, -PhCH2, Ph, with proviso that R2 ≠ H) optically pure are prepared as intermediates for the immunosuppressant FK-506 or intermediates thereof. Title compound I (R1 = Ph; R2 = Me; Pl = 4-(MeO)C6H4CH2; P = PhCH2) was prepared from oxazolidone II.

L132 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:81436 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 114:81436
 TITLE: Process for synthesis of FK-506 and tricarbonyl intermediates
 INVENTOR(S): Jones, Todd K.; Askin, David; Mills, Sander G.; Reamer, Robert A.; Desmond, Richard; Volante, Ralph P.; Tschaen, David M.; Shinkai, Ichiro
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Eur. Pat. Appl., 78 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 378318	A1	19900718	EP 1990-300143	1990 0105
<--				
CA 2007490	A1	19900711	CA 1990-2007490	1990 0110
<--				
JP 02233643	A	19900917	JP 1990-4401	1990 0111
<--				
US 5446158	A	19950829	US 1990-596847	1990 1012
<--				
PRIORITY APPLN. INFO.:			US 1989-295877	A
<--				
			US 1989-375091	A
<--				

OTHER SOURCE(S): MARPAT 114:81436
 ED Entered STN: 09 Mar 1991
 AB Claimed is a process for synthesizing tricarbonyl compds. RCOOCOX (I) [R = (substituted) Cl-40 alkyl; X = NR1R2, OR1, etc.; R1, R2 = Cl-4 alkyl, benzyl, Ph, which may be substituted with halo, Cl-4 alkoxy]. The said process comprises the steps of: a) contacting aldehyde RCHO with hydroxyl-protected acetate enolate equivalent Z1OCH:CO(OM)X [Z1 = Cl-10 alkyl, C6-10 aryl, benzyl (which can be substituted by halo or Cl-4 alkoxy), trihydrocarbosilyl; M = Li, Na, K, etc.]; b) deprotecting the 2-hydroxyl function of the resulting product to form RCH(OH)CH(OH)COX (II); c) treating II in an inert, anhydrous, non-hydroxylic solvent with both oxalyl chloride and DMSO under an inert atmospheric at -78° to 0° followed by Et3N for a sufficient time to effect formation of I. Also claimed are intermediates for FK-506, e.g., piperidine III (R =

H, Cl-10 alkyl; Z2 = H, trihydrocarbosilyl). The total synthesis of FK-506, a known immunosuppressant, is described.

L132 ANSWER 24 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:235036 HCPLUS Full-text
 DOCUMENT NUMBER: 112:235036
 TITLE: Chemistry of tricarbonyl hemiketals and
 application of Evans technology to the total
 synthesis of the immunosuppressant
 (-)-FK-506
 AUTHOR(S): Jones, Todd K.; Reamer, Robert A.; Desmond,
 Richard; Mills, Sander G.
 CORPORATE SOURCE: Merck Sharp and Dohme Res. Lab., Rahway,
 NJ, 07065-0900, USA
 SOURCE: Journal of the American Chemical Society (1990), 112(8), 2998-3017
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 112:235036
 ED Entered STN: 23 Jun 1990
 AB Details of model studies probing the chemical of the tricarbonyl region of FK-506 (I) are presented, and their use in designing a successful route to I is outlined. Applications of asym. oxazolidinone alkylation-alcohol methodology to a convergent, highly flexible synthesis of the C(10)-C(18) fragment and to improvements in the preparation of the C(20)-C(34) segment are also discussed.

L132 ANSWER 25 OF 29 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:235199 HCPLUS Full-text
 DOCUMENT NUMBER: 112:235199
 TITLE: Process for synthesis of hydroxylactone as
 intermediate for immunoregulant
 FK-506
 INVENTOR(S): Mills, Sander G.; Volante, Ralph P.;
 Shinkai, Ichiro
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 343723	A1	19891129	EP 1989-201262	1989 0518
<--				
US 4940803	A	19900710	US 1988-197551	1988 0523
<--				
JP 02025475	A	19900126	JP 1989-127978	1989 0523
<--				
PRIORITY APPLN. INFO.:			US 1988-197551	A 1988 0523
<--				

OTHER SOURCE(S): CASREACT 112:235199
 ED Entered STN: 23 Jun 1990

AB Hydroxylactone I ($R = H$) (II) in optically pure form, useful as an intermediate in the synthesis of the C20-34 chain of the immunosuppressant FK-506 and useful as a precursor for producing an UV radiation absorber, is prepared. To a suspension of quinic acid lactone I ($R = OH$) in $C1CH2CH2Cl$ was added thiocarbonyldimidazole at reflux under N_2 to give 74% thioester III which was refluxed with $Bu3SnH$ and AIBN in xylene under N_2 to give 43% II.

L132 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:234809 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 112:234809
 TITLE: Process for synthesis of E-2-methyl-
 α,β -unsaturated aldehydes as
 intermediates for the
 immunosuppressant FK-506 and as UV
 absorbers.
 INVENTOR(S): Desmond, Richard; Mills, Sander G.;
 Volante, Ralph P.; Shinkai, Ichiro
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 343709	A2	19891129	EP 1989-201213	1989 0516
<--				
EP 343709	A3	19901205		1989 0227
R: CH, DE, FR, GB, IT, LI, NL				
US 4914220	A	19900403	US 1989-316607	
<--				
JP 02025490	A	19900126	JP 1989-127977	1989 0523
<--				
JP 06000793	B	19940105	US 1988-197549	A 1988 0523
<--				

PRIORITY APPLN. INFO.: OTHER SOURCE(S): CASREACT 112:234809; MARPAT 112:234809

ED Entered STN: 23 Jun 1990

AB The title compds. I ($Z =$ triorgansilyl protecting group) are prepared from aldehydes II. I are also useful as UV absorbers (no data). Treatment of imine III with sec-BuLi, followed by reaction with aldehyde IV, treatment of the resulting product with $CF3CO2H$, and hydrolysis, gave 84% (E)-V.

L132 ANSWER 27 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
 ACCESSION NUMBER: 2002:544668 BIOSIS [Full-text](#)
 DOCUMENT NUMBER: PREV200200544668
 TITLE: Phosphate derivatives as immunoregulatory agents.
 AUTHOR(S): Mandala, Suzanne [Inventor, Reprint author];
 Bergstrom, James [Inventor]; Hajdu, Richard
 [Inventor]; Rosen, Hugh [Inventor];
 Parsons, William [Inventor]; Card, Deborah J.

[Inventor]; MacCoss, Malcolm [Inventor]; Kathleen, Rupprecht [Inventor]
CORPORATE SOURCE: Scotch Plains, NJ, USA
ASSIGNEE: Merck and Co., Inc.
PATENT INFORMATION: US 6437165 20020820
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Aug. 20, 2002)
 Vol. 1261, No. 3. <http://www.uspto.gov/web/menu/patdata.html>. e-file.
CODEN: OGUPE7. **ISSN:** 0098-1133.

DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 23 Oct 2002
 Last Updated on STN: 23 Oct 2002
ED Entered STN: 23 Oct 2002
 Last Updated on STN: 23 Oct 2002
AB Immunoregulatory compounds are disclosed of the formula: ##STR1## as well as the pharmaceutically acceptable salts and hydrates thereof, are disclosed. The compounds are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compositions and methods of use are included.

L132 ANSWER 28 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
ACCESSION NUMBER: 2002:505469 BIOSIS Full-text
DOCUMENT NUMBER: PREV200200505469
TITLE: Substituted 3-amino biaryl propionic acids as potent VLA-4 antagonists.
AUTHOR(S): Kopka, Thor E. [Reprint author]; Lin, Linus S.; Mumford, Richard A.; Lanza, Thomas, Jr.; Magriotis, Plato A.; Young, David; DeLazzio, Stephen E.; MacCoss, Malcolm; Mills, Sander G.; Van Riper, Gail; McCauley, Ermengilda; Lyons, Kathryn; Vincent, Stella; Egger, Linda A.; Kidambi, Usha; Stearns, Ralph; Colletti, Adria; Teffera, Yohannes; Tong, Sharon; Owens, Karen; Levorse, Dorothy; Schmidt, John A.; Hagmann, William K.
CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Research Laboratories, RY 123-136, PO Box 2000, Rahway, NJ, 07065, USA
 thor_kopka@merck.com
SOURCE: Bioorganic and Medicinal Chemistry Letters, (September, 2002) Vol. 12, No. 17, pp. 2415-2418. print.
CODEN: BOMC8. **ISSN:** 0960-894X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Sep 2002
 Last Updated on STN: 25 Sep 2002
ED Entered STN: 25 Sep 2002
 Last Updated on STN: 25 Sep 2002
AB A series of substituted N-(3,5-dichlorobenzenesulfonyl)-(L)-prolyl- and (L)-azetidyl-beta-biaryl beta-alanine derivatives was prepared as selective and potent VLA-4 antagonists. The 2,6-dioxygenated biaryl substitution pattern is important for optimizing potency. Oral bioavailability was variable and may be a result of binding to circulating plasma proteins.

L132 ANSWER 29 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
ACCESSION NUMBER: 1995:63645 BIOSIS Full-text
DOCUMENT NUMBER: PREV199598077945
TITLE: The *Saccharomyces cerevisiae* FKS1 (ETG1) gene encodes an integral membrane protein which is a subunit of 1,3-beta-D-glucan synthase.
AUTHOR(S): Douglas, Cameron M.; Foor, Forrest; Marrinan, Jean

A.; Morin, Nancy; Nielsen, Jennifer B.; Dahl, Arlene M.; Mazur, Paul; Baginsky, Walter; Li, Weili; El-Sherbeini, Mohamed; Clemas, Joseph A.; Mandala, Suzanne M.; Frommer, Beth R.; Kurtz, Myra B. [Reprint author]

CORPORATE SOURCE: Merck Res. Lab., PO Box 2000, Rahway, NJ 07065, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1994) Vol. 91, No. 26, pp. 12907-12911.

CODEN: PNASA6. ISSN: 0027-8424.

DOCUMENT TYPE: Article

LANGUAGE: English

OTHER SOURCE: Genbank-U12893

ENTRY DATE: Entered STN: 8 Feb 1995

Last Updated on STN: 14 Mar 1995

ED Entered STN: 8 Feb 1995

Last Updated on STN: 14 Mar 1995

AB In *Saccharomyces cerevisiae*, mutations in FKS1 confer hypersensitivity to the immunosuppressants FK506 and cyclosporin A, while mutations in ETG1 confer resistance to the cell-wall-active echinocandins (inhibitors of 1,3-beta-D-glucan synthase) and, in some cases, concomitant hypersensitivity to the chitin synthase inhibitor nikkomycin Z. The FKS1 and ETG1 genes were cloned by complementation of these phenotypes and were found to be identical. Disruption of the gene results in (i) a pronounced slow-growth phenotype, (ii) hypersensitivity to FK506 and cyclosporin A, (iii) a slight increase in sensitivity to echinocandin, and (iv) a significant reduction in 1,3-beta-D-glucan synthase activity *in vitro*. The nucleotide sequence encodes a 215-kDa polypeptide predicted to be an integral membrane protein with 16 transmembrane helices, consistent with previous observations that the *etg1-1* mutation results in echinocandin-resistant glucan synthase activity associated with the nonextractable membrane fraction of the enzyme. These results suggest that FKS1 encodes a subunit of 1,3-beta-D-glucan synthase. The residual activity present in the disruption mutant, the nonessential nature of the gene, and results of Southern blot hybridization analysis point to the existence of a glucan synthase isozyme.

=>

=> d his l133

(FILE 'HCAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:49:36 ON 27 JUL
2007)

L133 4 S (L106 OR L96) AND L101

=> d que l133

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 106-41-2/B1 OR 107-13-1/B1 OR 108898-23-3/B1 OR
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 L8 36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
 L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
 L10 7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
 L11 7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
 L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
 L13 43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
 L14 36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
 L15 7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
 L16 12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
 L17 6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
 L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
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 L20 9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
 L21 1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N

O4/MF

L22 2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O

L24 22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
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L25 11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
 L26 2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
 L27 4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O

L28 6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
 L29 3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
 L30 6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
 AND 1/P

L31 6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
 L32 5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
 L33 27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
 L34 10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
 L35 5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
 L37 44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS

L38 32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
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 L42 68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
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 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
 L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
 OR L38

L44 199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
 L45 849 SEA FILE=HCAPLUS ABB=ON PLU=ON L44
 L46 QUE ABB=ON PLU=ON PHARMAC?/SC,SX
 L47 483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW//DT

L49 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
 L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
 MUN?(A) (SUPPRESS? OR REG?)

L51 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
 L60 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P?
 L61 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
 L68 QUE ABB=ON PLU=ON AUTOIMMUN?
 L69 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
 L70 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
 L71 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
 L72 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
 L73 41 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
 L74 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT
 L75 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74
 L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
 L77 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76
 L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
 L79 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78
 L80 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
 OLD,NT/CT

L81 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80
 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
 L82 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82
 L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
 L85 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84
 L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT,OLD,NT/CT
 L87 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86
 L88 QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
 L89 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L88
 L90 68 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 OR L61 OR L69 OR
 L71 AND L73 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85
 OR L89 OR L87

L94 QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
 L95 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
 L96 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
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 L105 179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
 L106 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L105
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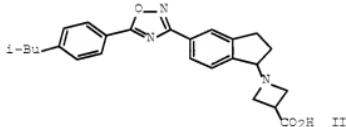
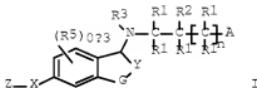
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L133 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:566538 HCAPLUS Full-text
 DOCUMENT NUMBER: 1411:123484
 TITLE: Preparation of 1-(amino)indanes and
 (1,2-dihydro-3-amino)-benzofurans,
 benzothiophenes and indoles as EDG receptor
 agonists
 INVENTOR(S): Doherty, George A.; Haile,
 Jeffrey J.; Mills, Sander G.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004058149	A2	20040715	WO 2003-US40129	2003 1216 <--
WO 2004058149	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MR, MN, MW, MX, MZ, NL, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GU, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2509218	A1	20040715	CA 2003-2509218	2003 1216 <--
AU 2003297232	A1	20040722	AU 2003-297232	2003 1216 <--
EP 1581509	A2	20051005	EP 2003-814075	2003 1203

<--			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006511579	T 20060406	JP 2004-563642	2003 1216
<--			
US 2006161005	A1 20060720	US 2005-536730	2005 0527
<--			
US 7220734	B2 20070522	US 2002-435381P	P 2002 1220
<--			
PRIORITY APPLN. INFO.:		WO 2003-US40129	W 2003 1216

OTHER SOURCE(S): MARPAT 141:123484
 ED Entered STN: 15 Jul 2004
 GI



AB Compds. of formula I [G = C(R4)2, O, S, SO, SO2; X = Ph, alkyl, etc.; Y = (C(R4))p; Z = alkyl, heterocyclo, etc.; A = CO2H, PO3H2, SO3H, tetrazolyl, etc.; each R1 = H, halo, OH, alkyl, alkoxy; R2 = H, halo, OH, alkyl, alkoxy; R3 = H, alkyl; R2R3 = (substituted) alkylene; R4 = H, alkyl; R5 = halo, alkyl, alkoxy; n = 0-1; p = 1-3] are prepared as EDG receptor agonists. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, II was prepared from azetidine-3-carboxylic acid and the prepared indanone derivative. The prepared compds. had > 100-fold selectivity of EDG1 over EDG3.

IT 350-92-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aminoindanones as immunosuppressants)

RN 350-92-5 HCPLUS

CN 2-Propanone, 1,1,1-trifluoro-3-phenyl- (CA INDEX NAME)



IC ICM A61K
 CC 25-23 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 1, 63

ST aminoindane prepn EDG receptor agonist; indane amino prepn EDG receptor agonist; immunosuppressant aminoindane prepn; benzofuran amino prepn EDG receptor agonist; benzothiophene amino prepn EDG receptor agonist; indole amino prepn EDG receptor agonist

IT Hepatitis
 (B; preparation of aminoindananes as immunosuppressants)

IT Inflammation
 (Crohn's disease; preparation of aminoindananes as immunosuppressants)

IT Intestine, disease
 (Crohn's; preparation of aminoindananes as immunosuppressants)

IT Kidney, disease
 (Goodpasture's syndrome; preparation of aminoindananes as immunosuppressants)

IT Eye, disease
 Graves' disease
 (Graves' ophthalmopathy; preparation of aminoindananes as immunosuppressants)

IT Nervous system, disease
 (Guillain-Barre syndrome; preparation of aminoindananes as immunosuppressants)

IT Ear, disease
 (Meniere's; preparation of aminoindananes as immunosuppressants)

IT Skin, neoplasm
 (Sezary syndrome; preparation of aminoindananes as immunosuppressants)

IT Skin, neoplasm
 (T-cell lymphoma; preparation of aminoindananes as immunosuppressants)

IT Disease, animal
 (Vogt-Koyanagi-Harada's syndrome; preparation of aminoindananes as immunosuppressants)

IT Granulomatous disease
 (Wegener's granulomatosis; preparation of aminoindananes as immunosuppressants)

IT Lung, disease
 (acute injury; preparation of aminoindananes as immunosuppressants)

IT Injury
 (acute pulmonary; preparation of aminoindananes as immunosuppressants)

IT Respiratory distress syndrome
 (adult; preparation of aminoindananes as immunosuppressants)

IT Allergy
 (allergic asthma; preparation of aminoindananes as immunosuppressants)

IT Allergy
 Eye, disease
 Inflammation
 (allergic conjunctivitis; preparation of aminoindananes as immunosuppressants)

IT Asthma
 (allergic; preparation of aminoindananes as immunosuppressants)

IT Jaw
 (alveolar bone; preparation of aminoindananes as immunosuppressants)

- IT Edema
 - (angioneurotic; preparation of aminoindanes as immunosuppressants)
- IT Erythropoiesis
 - (aplasia; preparation of aminoindanes as immunosuppressants)
- IT Anemia (disease)
 - (aplastic; preparation of aminoindanes as immunosuppressants)
- IT Alopecia
 - (areata; preparation of aminoindanes as immunosuppressants)
- IT Dermatitis
 - (atopic; preparation of aminoindanes as immunosuppressants)
- IT Anemia (disease)
 - Autoimmune disease
 - (autoimmune hemolytic anemia; preparation of aminoindanes as immunosuppressants)
- IT Autoimmune disease
 - Inflammation
 - Thyroid gland, disease
 - (autoimmune thyroiditis; preparation of aminoindanes as immunosuppressants)
- IT Hepatitis
 - (autoimmune; preparation of aminoindanes as immunosuppressants)
- IT Infection
 - (bacterial; preparation of aminoindanes as immunosuppressants)
- IT Cirrhosis
 - (biliary; preparation of aminoindanes as immunosuppressants)
- IT Bronchi, disease
 - (bronchiectasis; preparation of aminoindanes as immunosuppressants)
- IT Bronchi, disease
 - Inflammation
 - (bronchiolitis; preparation of aminoindanes as immunosuppressants)
- IT Bronchi, disease
 - Inflammation
 - (bronchitis; preparation of aminoindanes as immunosuppressants)
- IT Skin, disease
 - (bulous pemphigoid; preparation of aminoindanes as immunosuppressants)
- IT Drug delivery systems
 - (capsules, soft; preparation of aminoindanes as immunosuppressants)
- IT Drug delivery systems
 - (capsules; preparation of aminoindanes as immunosuppressants)
- IT Lung, disease
 - (chronic obstructive pulmonary disease; preparation of aminoindanes as immunosuppressants)
- IT Inflammation
 - (chronic; preparation of aminoindanes as immunosuppressants)
- IT Dermatitis
 - (contact; preparation of aminoindanes as immunosuppressants)
- IT Lymphoma
 - (cutaneous T-cell; preparation of aminoindanes as immunosuppressants)
- IT Kidney, disease
 - (diabetic nephropathy; preparation of aminoindanes as

- immunosuppressants)
- IT Connective tissue, disease
 - Inflammation
 - (eosinophilic fasciitis; preparation of aminoindanes as immunosuppressants)
- IT Granuloma
 - (eosinophilic; preparation of aminoindanes as immunosuppressants)
- IT Skin, disease
 - (epidermolysis bullosa; preparation of aminoindanes as immunosuppressants)
- IT Autoimmune disease
 - (exptl. autoimmune encephalomyelitis; preparation of aminoindanes as immunosuppressants)
- IT Encephalomyelitis
 - (exptl. autoimmune; preparation of aminoindanes as immunosuppressants)
- IT Kidney, disease
 - (failure; preparation of aminoindanes as immunosuppressants
 -)
- IT Lung, disease
 - (fibrosis; preparation of aminoindanes as immunosuppressants
 -)
- IT Ulcer
 - (gastric; preparation of aminoindanes as immunosuppressants
 -)
- IT Digestive tract, disease
 - Inflammation
 - (gastroenteritis; preparation of aminoindanes as immunosuppressants)
- IT Gingiva, disease
 - Inflammation
 - (gingivitis; preparation of aminoindanes as immunosuppressants)
- IT Inflammation
 - Kidney, disease
 - (glomerulonephritis; preparation of aminoindanes as immunosuppressants)
- IT Transplant and Transplantation
 - (graft-vs.-host reaction; preparation of aminoindanes as immunosuppressants)
- IT Kidney, disease
 - (hemolytic-uremic syndrome; preparation of aminoindanes as immunosuppressants)
- IT Infection
 - (hepatitis B; preparation of aminoindanes as immunosuppressants)
- IT Eye, disease
 - Infection
 - Inflammation
 - (herpetic keratitis; preparation of aminoindanes as immunosuppressants)
- IT Skin, disease
 - (hyperproliferation; preparation of aminoindanes as immunosuppressants)
- IT Skin, disease
 - (ichthyosis; preparation of aminoindanes as immunosuppressants)
- IT Purpura (disease)
 - (idiopathic thrombocytopenic; preparation of aminoindanes as immunosuppressants)
- IT Intestine, disease
 - (inflammatory; preparation of aminoindanes as immunosuppressants)
- IT Drug delivery systems
 - (injections; preparation of aminoindanes as immunosuppressants)

- IT Reperfusion
 - (injury; preparation of aminoindanes as immunosuppressants
 -)
- IT Autoimmune disease
 - (insulin-dependent diabetes mellitus; preparation of aminoindanes as immunosuppressants)
- IT Diabetes mellitus
 - (insulin-dependent; preparation of aminoindanes as immunosuppressants)
- IT Inflammation
 - Kidney, disease
 - (interstitial nephritis; preparation of aminoindanes as immunosuppressants)
 - Pneumonia
 - (interstitial; preparation of aminoindanes as immunosuppressants)
 - Eye, disease
 - Inflammation
 - (keratitis; preparation of aminoindanes as immunosuppressants)
 - Eye, disease
 - Inflammation
 - (keratoconjunctivitis; preparation of aminoindanes as immunosuppressants)
 - Skin, disease
 - (leukoderma; preparation of aminoindanes as immunosuppressants)
 - Skin, disease
 - (lichen planus; preparation of aminoindanes as immunosuppressants)
 - Necrosis
 - (liver; preparation of aminoindanes as immunosuppressants)
 - Eye, disease
 - (macula, senile degeneration; preparation of aminoindanes as immunosuppressants)
 - Alopecia
 - (male pattern; preparation of aminoindanes as immunosuppressants)
 - IT Anemia (disease)
 - (megaloblastic anemia; preparation of aminoindanes as immunosuppressants)
 - IT Carcinoma
 - (metastasis; preparation of aminoindanes as immunosuppressants)
 - IT Headache
 - (migraine; preparation of aminoindanes as immunosuppressants
 -)
 - IT Eczyma
 - (multiforme; preparation of aminoindanes as immunosuppressants)
 - IT Liver, disease
 - (necrosis; preparation of aminoindanes as immunosuppressants
 -)
 - IT Inflammation
 - Nerve, disease
 - (neuritis; preparation of aminoindanes as immunosuppressants
 -)
 - IT Respiratory distress syndrome
 - (newborn; preparation of aminoindanes as immunosuppressants
 -)
 - IT Hepatitis
 - (non-A, non-B; preparation of aminoindanes as immunosuppressants)
 - IT Diabetes mellitus
 - (non-insulin-dependent; preparation of aminoindanes as immunosuppressants)
 - IT Respiratory system, disease

(obstructive; preparation of aminoindanes as
 immunosuppressants)

IT Inflammation

Pancreas, disease
 (pancreatitis; preparation of aminoindanes as
 immunosuppressants)

IT Skin, disease*
 (pemphigus; preparation of aminoindanes as
 immunosuppressants)

IT Artery, disease
 Inflammation
 (periarteritis nodosa; preparation of aminoindanes as
 immunosuppressants)

IT Inflammation

Periodontium, disease
 (periodontitis; preparation of aminoindanes as
 immunosuppressants)

IT Anemia (disease)
 (pernicious anemia; preparation of aminoindanes as
 immunosuppressants)

IT Allergy
 (photoallergic contact dermatitis; preparation of aminoindanes as
 immunosuppressants)

IT Dermatitis
 (photoallergic contact; preparation of aminoindanes as
 immunosuppressants)

IT Myositis
 (polymyositis; preparation of aminoindanes as
 immunosuppressants)

IT Immunosuppressants
 (preparation of aminoindanes and amino-benzofurans, benzothiophenes
 and indoles as immunosuppressants)

IT AIDS (disease)
 Acne

Addison's disease

Aging, animal

Agranulocytosis

Allergy
 Alopecia

Arteriosclerosis
 Asthma

Atherosclerosis
 Autoimmune disease
 Behcet's syndrome

Burn

Cataract

Celiac disease

Cirrhosis
 Cough

Dermatitis

Dermatomyositis

Eczema

Emphysema

Eosinophilia
 Erythema

Gingiva, disease

Graves' disease

Hyperthyroidism

Hypoxia

Immune disease
 Lung, neoplasm

Lupus erythematosus

Lymph node, disease
 Lymphocytic leukemia

Lymphoma

Mastocytoma

Multiple sclerosis

Muscular dystrophy
 Myasthenia gravis
 Myositis
 Necrosis
 Neoplasm
 Obesity
 Osteoporosis
 Periodontium, disease
 Pneumonia
 Psoriasis
 Respiratory system, disease
 Rheumatic fever
 Rheumatoid Arthritis
 Sarcoidosis
 Seborrheia
 Sepsis
 Shock (circulatory collapse)
 Sjögren syndrome
 Thrombosis
 Transformation, neoplastic
 Transplant rejection
 Ulcer
 Urticaria
 (preparation of aminoindanes as immunosuppressants)
 IT Biliary tract, disease
 (primary biliary cirrhosis; preparation of aminoindanes as immunosuppressants)
 IT Inflammation
 Intestine, disease
 (pseudomembranous enterocolitis; preparation of aminoindanes as immunosuppressants)
 IT Fibrosis
 (pulmonary; preparation of aminoindanes as immunosuppressants)
 IT Skin, disease
 (pyoderma; preparation of aminoindanes as immunosuppressants
)
 IT Injury
 (reperfusion; preparation of aminoindanes as immunosuppressants)
 IT Eye, disease
 Inflammation
 (retinitis pigmentosa; preparation of aminoindanes as immunosuppressants)
 IT Inflammation
 Nose, disease
 (rhinitis; preparation of aminoindanes as immunosuppressants
)
 IT Connective tissue, disease
 (scleroderma; preparation of aminoindanes as immunosuppressants)
 IT Biliary tract, disease
 Inflammation
 (sclerosing cholangitis; preparation of aminoindanes as immunosuppressants)
 IT Mental and behavioral disorders
 (senile psychosis; preparation of aminoindanes as immunosuppressants)
 IT Shock (circulatory collapse)
 (septic; preparation of aminoindanes as immunosuppressants
)
 IT Disease, animal
 (siderosis; preparation of aminoindanes as immunosuppressants)
 IT Drug delivery systems
 (suspensions; preparation of aminoindanes as immunosuppressants)

IT Lupus erythematosus
(systemic; preparation of aminoindanes as immunosuppressants
)

IT Drug delivery systems
(tablets; preparation of aminoindanes as immunosuppressants
)

IT Injury
(trauma; preparation of aminoindanes as immunosuppressants
)

IT Stomach, disease
(ulcer; preparation of aminoindanes as immunosuppressants)

IT Inflammation
Intestine, disease
(ulcerative colitis; preparation of aminoindanes as immunosuppressants)

IT Eye, disease
Inflammation
(uveitis; preparation of aminoindanes as immunosuppressants
)

IT Blood vessel, disease
Inflammation
(vasculitis; preparation of aminoindanes as immunosuppressants)

IT Infection
(viral hepatitis; preparation of aminoindanes as immunosuppressants)

IT Hepatitis
(viral; preparation of aminoindanes as immunosuppressants)

IT 721948-69-2P 721948-70-5P 721948-71-6P 721948-72-7P
721948-73-8P 721948-74-9P 721948-75-0P 721948-76-1P
721948-77-2P 721948-78-3P 721948-79-4P 721948-80-7P
721948-81-8P 721948-82-9P 721948-83-0P 721948-84-1P
721948-85-2P 721948-86-3P 721948-87-4P 721948-88-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(preparation of aminoindanes as immunosuppressants)

IT 95-48-7, o-Cresol, reactions 350-92-5 623-51-8, Ethyl
mercaptoacetate 625-36-5, 3-Chloropropionyl chloride 629-27-6,
1-Iodoocane 2550-36-9, Bromomethylcyclohexane 3470-49-3,
5-Hydroxy-1-indanone 70029-52-1, 4-Cyclohexylbenzoic acid
25724-79-2, 5-Cyano-1-indanone 34598-49-7, 5-Bromo-1-indanone
36476-78-5, Azetidine-3-carboxylic acid 38861-88-0,
4-(2-Methylpropyl)benzoic acid 100202-39-9, Methyl
azetidine-3-carboxylate hydrochloride 146631-00-7,
4-Benzylxophenylboronic acid

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aminoindanes as immunosuppressants)

IT 125114-88-7P 146936-34-7P 167279-18-7P
208108-76-3P 256488-46-7P 685529-03-7P
721948-89-6P 721948-90-9P 721948-91-0P 721948-92-1P
721948-93-2P 721948-94-3P 721948-95-4P 721948-96-5P
721948-97-6P 721948-98-7P 721948-99-8P 721949-00-4P

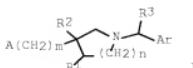
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of aminoindanes as immunosuppressants)

L133 ANSWER 2 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:591193 HCPLUS Full-text
DOCUMENT NUMBER: 139:149520
TITLE: Preparation of aralkylpyrrolidines and
-azetidines as Edg receptor agonists
INVENTOR(S): Bugianesi, Robert L.; Doherty, George
A.; Gentry, Amy; Hale, Jeffrey J.
; Lynch, Christopher L.; Mills, Sander
G.; Neway, William E., III

PATENT ASSIGNEE(S): Marcy & Co., Inc., USA
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062252	A1	20030731	WO 2003-US1196	2003 0115
			<--	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NC, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TH, TR, TT, TZ, UA, UG, US, UZ, VC, VI, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2472715	A1	20030731	CA 2003-2472715	2003 0115
			<--	
EP 1470137	A1	20041027	EP 2003-705779	2003 0115
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005515259	T	20050526	JP 2003-562129	2003 0115
			<--	
US 2005033055	A1	20050210	US 2004-500895	2004 0707
			<--	
PRIORITY APPLN. INFO.:			US 2002-350000P	P
				2002 0118
			<--	
			WO 2003-US1196	W
				2003 0115

OTHER SOURCE(S): MARPAT 139:149520
 ED Entered STN: 01 Aug 2003
 GI



AB Title compds. I [Ar = (un)substituted Ph, naphthyl; A = CO₂H, P(O)(OH)₂, P(O)OH, SO₃H, 1H-tetrazol-5-yl; R₁, R₂ = H, halogen, OH, CO₂H, (un)substituted alkyl; R₃ = H, (un)substituted alkyl; m, n = 0, 1] were prepared for use as Edg receptor agonists, useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection (no data). Thus, 3-pyrrolidinol was converted to di-Et 3-hydroxypyrrrolidin-3- ylphosphonate and treated with 4-nonylbenzaldehyde, followed by ester hydrolysis to give 1-(4-nonylbenzyl)-3-hydroxypyrrrolidin-3- phosphonic acid.

IT 350-92-5, 1,1,1-Trifluoro-3-phenyl-2-propanone

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

RN 350-92-5 HCAPLUS

CN 2-Propanone, 1,1,1-trifluoro-3-phenyl- (CA INDEX NAME)



IC ICM C07F009-38

CC 27-10 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1

ST Edg receptor agonist aralkylpyrrolidine aralkylazetidine prepn
immunosuppressant

IT Chronic lymphocytic leukemia
Human
Immunosuppressants
Lymphoma
Multiple sclerosis
Pсориаз
Rheumatoid arthritis
Transplant rejection
(preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

IT Lupus erythematosus
(systemic; preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

IT 96-33-3, Methyl acrylate 100-83-4, 3-Hydroxybenzaldehyde
107-13-1, Acrylonitrile, reactions 111-70-6, 1-Heptanol
121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde 121-33-5,
4-Hydroxy-3-methoxybenzaldehyde 123-08-0, 4-Hydroxybenzaldehyde
350-92-5, 1,1,1-Trifluoro-3-phenyl-2-propanone 406-94-0,
trans-4,4-Trifluoro-2-butenoic acid 619-66-9, 4-Formylbenzoic
acid 623-27-8, Terephthalaldehyde 623-51-8, Ethyl
mercaptoacetate 629-27-6, 1-Iodooctane 682-30-4, Diethyl
vinylphosphonate 2420-16-8, 3-Chloro-4-hydroxybenzaldehyde
2495-35-4, Benzyl acrylate 2973-76-4, 3-Bromo-4-hydroxy-5-
methoxybenzaldehyde 2973-77-5, 3,5-Dibromo-4-
hydroxybenzaldehyde 6138-90-5, Geranyl bromide 7770-45-8,
4-Hydroxy-1-naphthaldehyde 15174-69-3, 4-Hydroxy-3-
methylbenzaldehyde 32247-96-4, 3,5-Bis(trifluoromethyl)benzyl
bromide 36476-78-5, 3-Azetidinocarboxylic acid
38841-98-4, Octylmagnesium chloride 40499-83-0,
3-Hydroxypyrrrolidine 54256-43-8, 4-Decylbenzoyl chloride
54963-70-1, 4-Nonylbenzoyl chloride 56962-11-9,
2-Chloro-4-hydroxybenzaldehyde 64283-87-0, 4-Phenylbutyl iodide
65695-05-7 93102-05-7 570424-02-1 570424-06-7
570424-09-8 570424-10-1 570424-11-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aralkylpyrrolidines and -azetidines as Edg receptor

agonists)

IT 17012-21-4P 24076-33-3P, 3-Methoxy-4-(octyloxy)benzaldehyde 24083-12-3P, 3-Octyloxybenzaldehyde 24083-13-4P, 4-Octyloxybenzaldehyde 54784-14-4P, 4-(Octyloxy)-1-naphthaldehyde 59378-87-9P, 3-Pyrrolidinocarboxylic acid 62299-38-1P 70972-98-4P, 4-Nonylbenzaldehyde 70972-99-5P, 4-Decylbenzaldehyde 101385-93-7P 103057-44-9P 108898-23-3P 131888-48-7P 146926-31-7P 161279-18-7P 168846-99-2P 198959-37-4P 205108-76-3P 246847-91-6P 256488-46-7P 569684-92-0P 569684-93-1P 569684-95-3P 569685-33-2P 569685-34-3P 569685-42-3P 569685-43-4P 569685-49-0P 569685-50-3P 570423-86-8P 570423-87-9P 570423-88-0P 570423-89-1P 570423-90-4P 570423-91-5P 570423-92-6P 570423-93-7P 570423-94-8P 570423-95-9P 570423-96-0P 570423-97-1P 570423-98-2P 570423-99-3P 570424-00-9P 570424-01-0P 570424-03-2P 570424-04-3P 570424-05-4P 570424-06-5P 570424-07-6P 570424-13-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

('preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

IT 570423-28-8P 570423-29-9P 570423-30-2P 570423-31-3P 570423-32-4P 570423-33-5P 570423-34-6P 570423-35-7P 570423-36-8P 570423-37-9P 570423-38-0P 570423-39-1P 570423-40-4P 570423-41-5P 570423-42-6P 570423-43-7P 570423-44-8P 570423-45-9P 570423-46-0P 570423-47-1P 570423-48-2P 570423-49-3P 570423-50-6P 570423-51-7P 570423-52-8P 570423-53-9P 570423-54-0P 570423-55-1P 570423-56-2P 570423-57-3P 570423-58-4P 570423-59-5P 570423-61-9P 570423-62-0P 570423-63-1P 570423-64-2P 570423-65-3P 570423-66-4P 570423-67-5P 570423-68-6P 570423-69-7P 570423-70-0P 570423-71-1P 570423-72-2P 570423-73-3P 570423-74-4P 570423-75-5P 570423-76-6P 570423-77-7P 570423-78-8P 570423-79-9P 570423-80-0P 570423-81-1P 570423-82-4P 570423-83-5P 570423-84-6P 570423-85-7P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

('preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

IT 570424-12-3

RL: RCT (Reactant); RACT (Reactant or reagent)

('preparation of aralkylpyrrolidines and -azetidines as Edg receptor agonists)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L133 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:591190 HCPLUS Full-text
 DOCUMENT NUMBER: 139:149756
 TITLE: Preparation of N-(benzyl)aminoalkylcarboxylate s, phosphinates, phosphonates and tetrazoles as EDG receptor agonists
 INVENTOR(S): Doherty, George A.; Li, Chen;
 Hale, Jeffrey J.; Mills, Sander G.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 152 pp.
 CODEN: PIXD2
 DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062248	A2	20030731	WO 2003-US1059	2003 0114 ---
WO 2003062248	A3	20060302		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TH, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RN: GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2472713	A1	20030731	CA 2003-2472713	2003 0114 ---
JP 2005527494	T	20050915	JP 2003-562125	2003 0114 ---
EP 1575964	A2	20050921	EP 2003-702110	2003 0114 ---
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005020837	A1	20050127	US 2004-500811	2004 0707 ---
PRIORITY APPLN. INFO.:			US 2002-349995P	P 2002 0118 ---
			WO 2003-US1059	W 2003 0114

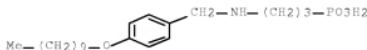
OTHER SOURCE(S): MARPAT 139:149756

ED Entered STN: 01 Aug 2003

AB The present invention encompasses preparation of compds., A(CR1R2)nNHCHR3Ar((R4)0-4)BC (Ar = Ph, naphthyl, etc.; A = CO2H, 1H-tetrazol-5-yl, PO3H2, PO2H2, SO3H, PO(R5)OH, R5 = Cl-4 alkyl, hydroxyl-4-alkyl, Ph, COCl-3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 = independently selected from H, halo, OH, CO2H, Cl-6 alkyl, Ph, etc.; R3 = H, Cl-4 alkyl, etc.; R4 = CO2H, Cl-4 alkyl, sulfonylalkyl, alkoxy, alkoxy(cyclopropyl, aryl, aryloxy, etc.; C = Cl-8 alkyl, Cl-8 alkoxy, heterocycl, etc.; B = (un)substituted Ph, (un)substituted C5-16 alkyl, (un)substituted C5-16 alkenyl, (un)substituted C5-16 alkynyl, etc.), as well as the pharmaceutically acceptable salts and hydrates thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, reaction of 3-aminopropylphosphonic acid with 4-(decyloxy)benzaldehyde in presence of Bu4NOH and sodium cyanoborohydride in MeOH for 1h at 50° gave title compound, N-((4-decyloxy)benzyl)-3-aminopropylphosphonic acid.

IT 569682-66-2P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 RN 569682-66-2 HCPLUS
 CN Phosphonic acid, [3-[[4-(decyloxy)phenyl]methyl]amino]propyl- (9CI) (CA INDEX NAME)



IC ICM C07F
 CC 29-7 (Organometallic and Organometalloidal Compounds)
 Section cross-reference(s): 1, 63
 IT Inflammation
 (Crohn's disease; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Asthma
 (Graves ophthalmopathy; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Lymphoma
 (acute and chronic; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Arthritis
 (chronic rheumatoid; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Inflammation
 (chronic; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Skin, disease
 (ichthyosis, bullous; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Autoimmune disease
 (insulin-dependent diabetes mellitus; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Autoimmune disease
 Cardiovascular agents
 Cardiovascular system
 Chronic lymphocytic leukemia
 Cirrhosis
 Drug delivery systems
 Human
 immunosuppressants
 immunosuppression
 Mammalia
 Multiple sclerosis
 (preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Lupus erythematosus
 (systemic; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)
 IT Inflammation

Intestine, disease
(ulcerative colitis; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

IT Eye, disease
inflammation
(uveitis; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

IT 569682-66-2P 569682-67-3P 569682-68-4P
569682-69-5P 569682-70-8P 569682-71-9P
569682-72-0P 569682-73-1P 569682-74-2P
569682-75-3P 569682-76-4P 569682-77-5P
569682-78-6P 569682-79-7P 569682-80-0P 569682-81-1P
569682-82-2P 569682-83-3P 569682-84-4P 569682-85-5P
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569684-81-7P 569684-82-8P 569684-83-9P
569684-84-0P 569684-85-1P 569684-86-2P
569684-87-3P 569684-88-4P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

IT 56-12-2, reactions 64-04-0, Benzeneethanamine 75-07-0, Acetaldehyde, reactions 83-38-5 98-80-6, Phenylboronic acid 100-52-7, Benzaldehyde, reactions 103-63-9, Phenethyl bromide 106-41-2, 4-Bromophenol 107-08-4, 1-iodopropane 107-13-1, Acrylonitrile, reactions 107-95-9, β -Alanine 111-70-6, 1-Heptanol 111-86-4, Octylamine 112-31-2, n-Decanal

121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde 121-33-5 123-08-0,
 4-Hydroxybenzaldehyde 123-38-6, Propanal, reactions 139-85-5,
 3,4-Dihydroxybenzaldehyde 143-16-8 144-90-1 350-52-5
 437-81-0 541-48-0 542-69-8, 1-Iodobutane 556-18-3,
 4-Aminobenzaldehyde 565-71-9 589-29-7, 1,4-Benzenedimethanol
 591-20-8, 3-Bromophenol 616-76-2 619-66-9,
 4-Carboxybenzaldehyde 623-27-8, 1,4-Benzenediacarboxaldehyde
 623-51-8, Ethyl mercaptoacetate 629-27-6, 1-Iodoctane
 637-59-2 638-45-9, 1-Iodohexane 660-88-8 764-85-2, Nonanoyl
 chloride 924-49-2 2050-77-3, 1-Iododecane 2052-07-5
 2113-57-7 2233-18-3 2314-36-5 2374-05-2,
 4-Bromo-2,6-dimethylphenol 2420-16-8, 3-Chloro-4-
 hydroxybenzaldehyde 2439-54-5 2973-76-4 2973-78-6
 3111-37-3 3132-99-8, 3-Bromobenzaldehyde 3261-62-9
 3300-51-4 3453-33-6, 6-Methoxy-2-naphthaldehyde
 3761-92-0, Hexylmagnesium bromide 3964-56-5 4282-40-0,
 1-Iodoheptane 4282-42-2, 1-Iodononane 4282-44-4,
 1-Iodoundecane 4815-96-7 5438-36-8 5699-54-7 6323-99-5
 7013-05-0 7368-78-7, 4-Bromo-2-methoxyphenol 7463-51-6,
 4-Bromo-3,5-dimethylphenol 7530-27-0 7770-45-8 10521-91-2,
 5-Phenyl-1-pentanol 13138-33-5, 3-Aminopropylphosphonic acid
 13214-66-9, Benzenebutanamine 13477-53-7 13880-74-5
 18278-34-7, 4-Hydroxy-2-methoxybenzaldehyde 19463-48-0
 23703-22-2 25006-17-1 35622-27-6 38841-98-4, Octylmagnesium
 chloride 40371-51-5 49763-66-8, 4-Octylbenzaldehyde
 51554-95-1 56217-93-7, 1H-Tetrazole-5-propanamine 56962-11-9,
 2-Chloro-4-hydroxybenzaldehyde 58521-63-4 64283-87-0
 65564-05-8, 3-(Benzoylcarbonylamino)propanal 65600-74-0,
 Ethyldithoxymethyl phosphinate 65695-05-8 70547-87-4
 70972-98-4, 4-Nonylbenzaldehyde 70972-99-5 76287-49-5
 76542-24-0, 1-Bromo-4-(nonylthio)benzene 103680-71-3
 127729-35-5 130592-02-8 148547-19-7, Methyl
 4-bromo-3-methylbenzoate 495397-19-8 569684-89-5 569685-44-5
 569685-48-9 569685-53-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of (benzyl)aminoalkylcarboxylates, phosphinates,
 phosphonates and tetrazoles as EDG receptor agonists)

IT 24076-33-3P 24083-13-4P, 4-Octyloxybenzaldehyde 30609-20-2P
 50262-46-9P 54784-14-4P 56308-79-3P 56741-21-0P
 60951-75-9P 61343-82-6P 71434-34-9P 75472-36-5P
 75677-08-6P 78119-82-1P, 6-Hydroxy-2-naphthaldehyde
 83697-65-8P 93972-07-7P 93972-08-8P 99186-35-3P,
 4-Hydroxy-3-propoxybenzaldehyde 101500-22-5P 103680-62-2P
 108898-23-3P 121118-78-3P 123912-25-4P 131888-48-7P
 143230-66-4P 149104-89-2P, 4-Bromo-3-methylbenzyl alcohol
 167279-18-7P 169806-13-7P 208108-76-3P
 221018-00-4P, [1,1':2',1"-Terphenyl]-4-carboxaldehyde
 226408-14-6P, [1,1':3",1"-Terphenyl]-4-carboxaldehyde
 246847-91-6P 256488-46-7P 500191-05-9P 569684-90-8P
 569684-91-9P 569684-92-0P 569684-93-1P 569684-94-2P
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 569685-52-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)
 (preparation of (benzyl)aminoalkylcarboxylates, phosphinates,
 phosphonates and tetrazoles as EDG receptor agonists)

L133 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:590932 HCAPLUS Full-text

DOCUMENT NUMBER: 139:149413
 TITLE: Selective CiPi/Edg1

INVENTOR(S): Doherty, George A.; Forrest, Michael J.; Hajdu, Richard; Hale, Jeffrey J.; Li, Chen; Mandala, Suzanne M.; Mills, Sander G.; Posco, Hugh; Scolnick, Edward M.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English

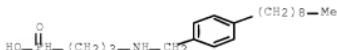
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003061567	A2	20030731	WO 2003-US1120	2003 0114
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WO 2003061567	A3	20031224		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TI, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VI, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004058894	A1	20040325	US 2003-339380	2003 0109
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CA 2472680	A1	20030731	CA 2003-2472680	2003 0114
				<--
EP 1469863	A2	20041027	EP 2003-731917	2003 0114
				<--
RU: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2003216054	B2	20070104	AU 2003-216054	2003 0114
				<--
US 2005070506	A1	20050331	US 2004-501176	2004 0712
				<--
PRIORITY APPLN. INFO.:			US 2002-349991P	P

US	2002-362566P	P	2002 0118
US	2002-382933P	P	2002 0307
WO	2003-US1120	W	2003 0114

ED Entered STN: 01 Aug 2003
AB The present invention encompasses a method of treating an immunoregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating said immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the SLP3/Edg3 receptor, said compound administered in an amount effective for treating said immunoregulatory abnormality. Thus, 4-HOC6H4CHO was treated with Me(CH₂)₇I to give 4-Me(CH₂)₇C6H4CHO which was treated with H2N(CH₂)₃P(O)(OH)₂ to give 4-Me(CH₂)₇C6H4CH₂NH(CH₂)₃P(O)(OH)₂ which had an EC50 for S1P1 agonism of 1.5 nM and for SLP3 agonism of 6.0 nM.
IT 569684-52-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
RN 569684-52-2 HCPLUS
CN Phosphinic acid, [3-[[[4-nonylphenyl)methyl]amino]propyl]- (9CI)
(CA INDEX NAME)



IC ICM A61K
 CC 29-7 (Organometallic and Organometalloid Compounds)
 Section cross-reference(s): 1, 10, 25, 63
 IT Hepatitis
 (B, acute; preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/Edg1 receptor agonists)
 IT Inflammation
 (Crohn's disease; preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/Edg1 receptor agonists)
 IT Intestine, disease
 (Crohn's; preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/Edg1 receptor agonists)
 IT G protein-coupled receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (EDG-1 (endothelial differentiation gene 1); preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/Edg1 receptor agonists)
 IT G protein-coupled receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)

(EDG-3 (endothelial differentiation gene 3); preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Anemia (disease)
(Fanconi's; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Kidney, disease
(Goodpasture's syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Eye, disease
Graves' disease
(Graves' ophthalmopathy; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Nervous system, disease
(Guillain-Barre syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Ear, disease
(Meniere's; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Skin, neoplasm
(Sezary syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Skin, neoplasm
(T-cell lymphoma; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Disease, animal
(Vogt-Koyanagi-Harada's syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Granulomatous disease
(Wegener's granulomatosis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Infection
(acute hepatitis B; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Allergy
Eye, disease
Inflammation
(allergic conjunctivitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Edema
(angioneurotic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Antiarteriosclerotics
(antiatherosclerotics; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Erythroplasia
(aplasia; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Anemia (disease)
(aplastic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Alopecia

- (areata; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Dermatitis
 - (atopic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Chemotherapy
 - (augmentation of; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Anemia (disease)
 - Autoimmune disease
 - (autoimmune hemolytic anemia; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Autoimmune disease
 - Inflammation
- Thyroid gland, disease
 - (autoimmune thyroiditis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Hepatitis
 - (autoimmune; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Infection
 - (bacterial; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Cirrhosis
 - (biliary; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Bronchi, disease
 - Inflammation
 - (bronchitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Skin, disease
 - (bullous pemphigoid; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Inflammation
 - (carditis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Dermatitis
 - (contact; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Lymphoma
 - (cutaneous T-cell; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Connective tissue, disease
 - Inflammation
 - (eosinophilic fasciitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Skin, disease
 - (epidermolysis bullosa; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists)
- IT Autoimmune disease
 - (exptl. autoimmune encephalomyelitis; preparation of amino functionalized organo phosphonates or organo carboxylates as

- SiPI/Edg1 receptor agonists)
- IT Encephalomyelitis
 - (exptl. autoimmune; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Kidney, disease
 - (failure, acute, ischemic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Kidney, disease
 - (failure, chronic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Liver, disease
 - (failure; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/Edg1 receptor agonists)
- IT Digestive tract, disease
 - Inflammation
 - (gastroenteritis, eosinophilic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Gingiva, disease
 - Inflammation
 - (gingivitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/Edg1 receptor agonists)
- IT Inflammation
 - Kidney, disease
 - (glomerulonephritis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Hair preparations
 - (growth stimulants; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Kidney, disease
 - (hemolytic-uremic syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Eye, disease
 - Infection
 - Inflammation
 - (herpetic keratitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Skin, disease
 - (hyperproliferation; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Skin, disease
 - (ichthyosis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/Edg1 receptor agonists)
- IT Purpura (disease)
 - (idiopathic thrombocytopenic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Intestine, disease
 - (inflammatory; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)
- IT Inflammation
 - Kidney, disease
 - (interstitial nephritis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI/
 Edg1 receptor agonists)

IT Pneumonia
(interstitial; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Eye, disease
Inflammation
(keratitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Eye, disease
Inflammation
(keratoconjunctivitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Eye, disease
Inflammation
(lichen planus; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Necrosis
(liver, acute; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Eye, disease
(macula, senile degeneration; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Anemia (disease)
(megaloblastic anemia; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Carcinoma
(metastasis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Headache
(migraine; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Erythema
(multiforme; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Heart, disease
inflammation
(myocarditis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Liver, disease
(necrosis, acute; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Inflammation
Nerve, disease
(neuritis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT Hepatitis
(non-A, non-B; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Inflammation
Pancreas, disease
(pancreatitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/
Edg1 receptor agonists)

IT Skin, disease
(pemphigus foliaceus; preparation of amino functionalized organo

phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT Artery, disease
 Inflammation
 (periarteritis nodosa; preparation of amino functionalized organo
 phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT Inflammation
 Periodontium, disease
 (periodontitis; preparation of amino functionalized organo
 phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT Anemia (disease)
 (pernicious anemia; preparation of amino functionalized organo
 phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT Allergy
 (photoallergic contact dermatitis; preparation of amino
 functionalized organo phosphonates or organo carboxylates as
 S1P1/Edg1 receptor agonists)
 IT Dermatitis
 (photoallergic contact; preparation of amino functionalized organo
 phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT Allergy
 (pollen; preparation of amino functionalized organo phosphonates or
 organo carboxylates as S1P1/Edg1 receptor
 agonists)
 IT Myositis
 (polymyositis; preparation of amino functionalized organo
 phosphonates or organo carboxylates as S1P1/
 Edg1 receptor agonists)
 IT AIDS (disease)
 Acne
 Addison's disease
 Aging, animal
 Agranulocytosis
 Allergy inhibitors
 Anti-AIDS agents
 Anti-inflammatory agents
 Anti-ischemic agents
 Antiarteriosclerotics
 Antiarthritis
 Antiasthmatics
 Antibacterial agents
 Anticoagulants
 Antidiabetic agents
 Antihistamines
 Antimigraine agents
 Antitumor agents
 Antiucler agents
 Arteriosclerosis
 Asthma
 Atherosclerosis
 Behcet's syndrome
 Blood coagulation
 Celiac disease
 Chronic lymphocytic leukemia
 Cirrhosis
 Dermatomyositis
 Diabetes mellitus
 Drug screening
 Eczema
 Emphysema
 Eosinophilia
 Erythema
 Gingiva, disease

Graves' disease
 Human
 Hyperthyroidism
 Hypoxia
 Immunosuppressants
 Ischemia
 Leukotriene antagonists
 Lung, neoplasm
 Lymphocytic leukemia
 Lymphoma
 Mastocytoma
 Multiple sclerosis
 Muscular dystrophy
 Myasthenia gravis
 Myositis
 Nervous system agents
 Osteoporosis
 Periodontium
 Periodontitis
 Rheumatic fever
 Rheumatoid arthritis
 Sarcoidosis
 Sepsis
 Sjogren syndrome
 Transformation, neoplastic
 Transplant rejection
 Urticaria
 (preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Inflammation
 Intestine, disease
 (pseudomembranous enterocolitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Skin, disease
 (pyoderma; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Inflammation
 (rectal; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Intestine, disease
 (rectum, inflammation; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Eye, disease
 Inflammation
 (retinopathy pigmentosa; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Inflammation
 Nose, disease
 (rhinitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Connective tissue, disease
 (scleroderma; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Biliary tract, disease
 Inflammation
 (sclerosing cholangitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
 IT Mental and behavioral disorders

(senile psychosis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/
Edgl receptor agonists)

IT Shock (circulatory collapse)
(septic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Disease, animal
(siderosis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Lupus erythematosus
(systemic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Injury
(trauma; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Shock (circulatory collapse)
(traumatic; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Respiratory system, disease
(treatment; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Inflammation
Intestine, disease
(ulcerative colitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/
Edgl receptor agonists)

IT Eye, disease
Inflammation
(uveitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Blood vessel, disease
Inflammation
(vasculitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT Infection
(viral hepatitis; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/
Edgl receptor agonists)

IT Hepatitis
(viral; preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT 569684-53-2P 569684-61-3P 571206-20-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of amino functionalized organo phosphonates or organo carboxylates as SiPI1/Edgl receptor agonists)

IT 569682-66-2P 569682-67-3P 569682-68-4P
569682-69-5P 569682-70-8P 569682-71-9P
569682-72-0P 569682-73-1P 569682-74-2P
569682-75-3P 569682-77-5P 569682-78-6P
569682-79-7P 569682-80-0P 569682-81-1P 569682-82-2P
569682-83-3P 569682-84-4P 569682-85-5P 569682-86-6P
569682-87-7P 569682-89-9P 569682-91-7P
569682-93-5P 569682-95-7P 569682-97-9P
569683-99-1P 569683-01-EP 569683-03-0P
569683-05-2P 569683-07-4P 569683-09-6P 569683-11-0P

569683-13-2P 569683-15-4P 569683-17-6P 569683-21-2P
 569683-23-4P 569683-25-6P 569683-27-8P 569683-28-9P
 569683-30-3P 569683-32-5P 569683-34-7P
 569683-39-2P 569683-41-6P 569683-43-8P
 569683-45-0P 569683-47-2P 569683-49-4P
 569683-51-8P 569683-55-2P 569683-57-4P
 569683-59-6P 569683-61-0P 569683-63-2P
569683-67-6P 569683-68-7P 569683-70-1P
 569683-72-2P 569683-74-5P 569683-76-7P
 569683-78-9P 569683-81-4P 569683-82-5P
569683-87-0P 569683-89-2P 569683-90-5P
 569683-92-7P 569683-94-9P **569683-96-1P**
 569683-99-4P 569684-01-1P 569684-03-3P
 569684-05-5P 569684-07-7P 569684-09-9P
 569684-11-2P 569684-13-5P 569684-15-7P
 569684-17-9P 569684-19-1P 569684-21-5P
 569684-23-7P 569684-25-9P **569684-26-0P**
569684-27-1P 569684-28-2P 569684-30-6P
 569684-32-8P 569684-34-0P **569684-39-5P**
 569684-41-9P 569684-48-4P 569684-47-5P
 569684-48-6P 569684-49-7P 569684-50-0P
 569684-51-1P 569684-53-3P 569684-54-4P
 569684-55-5P 569684-57-7P 569684-58-8P
 569684-59-9P 569684-62-4P 569684-64-6P
569684-65-7P 569684-66-8P 569684-67-9P
 569684-68-0P **569684-69-1P 569684-70-4P 569684-71-5P**
 569684-72-6P **569684-73-7P 569684-74-8P**
569684-76-0P 569684-77-1P 569684-78-2P
 569684-79-3P 569684-80-6P 569684-81-7P
 569684-82-8P 569684-83-9P 569684-84-0P
 569684-85-1P 569684-86-2P 569684-87-3P
 569684-88-4P 570423-28-8P 570423-29-9P
 570423-30-2P 570423-31-3P 570423-32-4P
 570423-33-5P 570423-34-6P 570423-35-7P
 570423-38-0P 570423-39-1P 570423-40-4P
 570423-41-5P 570423-42-6P 570423-43-7P
 570423-45-9P 570423-46-0P 570423-47-1P
 570423-48-2P 570423-49-3P 570423-50-6P
 570423-51-7P 570423-52-8P 570423-53-9P
 570423-54-0P 570423-55-1P 570423-56-2P
570423-57-3P 570423-58-4P 570423-59-5P 570423-61-9P
 570423-62-0P 570423-63-1P 570423-64-2P
 570423-65-3P **570423-66-4P 570423-67-5P**
 570423-68-6P 570423-73-3P 570423-74-4P
 570423-75-5P 570423-76-6P 570423-77-7P
 570423-78-8P 570423-79-9P 570423-80-2P
 570423-81-3P **571206-07-0P 571206-08-1P**
 571206-09-2P **571206-10-5P 571206-11-6P**
 571206-12-7P **571206-13-8P 571206-14-9P 571206-15-0P**
 571206-16-1P **571206-17-2P 571206-18-3P**
 571206-19-4P **571206-21-5P 571206-27-4P**
 571206-28-5P **571206-29-6P 571206-36-5P**
 571206-37-6P **571206-38-7P 571206-40-1P**
 571206-41-2P **571206-42-3P 571206-43-4P**
 571206-44-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of amino functionalized organo phosphonates or organo
 carboxylates as S1P1/Edg1 receptor
 agonists)

IT 56-12-2, 4-Aminobutanoic acid, reactions 64-04-0, Phenethylamine
 96-33-3, Methyl acrylate 98-80-6, Phenylboronic acid 100-83-4,
 3-Hydroxybenzaldehyde 106-41-2, 4-Bromophenol 107-13-1,
 Acrylonitrile, reactions 111-70-6, 1-Heptanol 111-86-4,
 1-Octanamine 121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde
 121-33-5, 4-Hydroxy-3-methoxybenzaldehyde 123-08-0,

4-Hydroxybenzaldehyde 139-85-5, 3,4-Dihydroxybenzaldehyde
 143-16-8, Dihexylamine 350-92-5, 1,1,1-Trifluoro-3-phenyl-2-propanone 401-95-6, 3,5-Bis(trifluoromethyl)benzaldehyde
 542-69-8, 1-Iodobutane 556-18-3, 4-Aminobenzaldehyde
 589-29-7, 1,4-Benzenedimethanol 591-20-8, 3-Bromophenol
 619-66-9, 4-Formylbenzoic acid 623-27-8, Terephthalaldehyde
 629-27-6, 1-Iodoctane 637-59-2, 1-Bromo-3-phenylpropane
 638-45-9, 1-Iodohexane 682-30-4, Diethyl vinylphosphonate
 924-49-2, 4-Amino-3-hydroxybutanoic acid 2052-07-5,
 2-Bromobiphenyl 2113-57-7, 3-Bromobiphenyl 2233-18-3,
 4-Hydroxy-3,5-dimethylbenzaldehyde 2314-36-5,
 3,5-Dichloro-4-hydroxybenzaldehyde 2374-05-2,
 4-Bromo-2,6-dimethylphenol 2420-16-8, 3-Chloro-4-hydroxybenzaldehyde 2439-54-5, N-Methyloctylamine 2495-35-4,
 Benzyl acrylate 2973-76-4, 3-Bromo-4-hydroxy-5-methoxybenzaldehyde 2973-77-5, 3,5-Dibromo-4-hydroxybenzaldehyde 2973-78-6, 3-Bromo-4-hydroxybenzaldehyde 3111-37-3, 3-Bromo-5-ethoxy-4-hydroxybenzaldehyde 3132-99-8,
 3-Bromobenzaldehyde 3261-62-9, 4-Methylphenethylamine 3300-51-4, 4-Trifluoromethylbenzylamine 3453-33-6,
 6-Methoxy-2-naphthaldehyde 3761-92-0, Hexylmagnesium bromide 3964-56-5, 4-Bromo-2-chlorophenol 4282-40-0, 1-Iodoheptane 4282-42-2, 1-Iodononane 4282-44-4, 1-Indoundecane 4815-96-7,
 3-Bromo-5-benzyloxy-4-hydroxybenzaldehyde 5438-36-8,
 4-Hydroxy-3-iodo-5-methoxybenzaldehyde 6138-90-5, Geranyl bromide 6323-99-5 7368-78-7, 4-Bromo-2-methoxyphenol 7463-51-6, 4-Bromo-3,5-dimethylphenol 7530-27-0,
 4-Bromo-2-chloro-6-methylphenol 7770-45-8, 4-Hydroxy-1-naphthaldehyde 10521-91-2, 5-Phenyl-1-pentanol 13138-33-5,
 3-Aminopropylphosphonic acid 13214-66-9, Benzenebutanamine 13477-53-7, 4-Amino-2-hydroxybutanoic acid 13631-21-5,
 4-Bromo-3-chlorophenol 13880-74-5, 4-Aminopentanoic acid 15174-69-3, 4-Hydroxy-3-methylbenzaldehyde 18278-34-7,
 4-Hydroxy-2-methoxybenzaldehyde 19463-48-0, 3-Chloro-4-hydroxy-5-methoxybenzaldehyde 23703-22-2, 1-Bromo-4-hexylbenzene 25006-17-1, 4-Hydroxy-3-methoxy-5-propylbenzaldehyde 35622-27-6,
 4-Aminobutylphosphonic acid 36476-78-5,
 3-Azetidinecarboxylic acid 38841-98-4, Octylmagnesium chloride 40499-83-0, 3-Pyrrolidinol 50773-56-3, 3-Benzylxy-4-hydroxybenzaldehyde 51572-88-4, 4-Formyl-2-hydroxybenzoic acid 54256-43-8, 4-Decylbenzyl chloride 54963-70-1, 4-Nonylbenzyl chloride 56217-93-7, 5-(3-Aminopropyl)-1H-tetrazole 56962-11-9, 2-Chloro-4-hydroxybenzaldehyde 64283-87-0,
 4-Iodobutylbenzene 65564-05-8, 3-Benzylloxycarbonylaminopropanal 65600-74-0, Ethyl diethoxymethylphosphinate 70547-87-4,
 4-Hydroxy-2,6-dimethylbenzaldehyde 76542-24-0,
 1-Bromo-4-nonylthiobenzene 87199-17-5, 4-Formylphenylboronic acid 93102-05-7 103680-71-3 130592-02-8,
 4-Amino-2,2-difluorobutanoic acid 148547-19-7, Methyl 4-bromo-3-methylbenzoate 569684-89-5, 4-Amino-3-fluorobutanoic acid 569685-48-9 570424-08-7 570424-09-8
 570424-10-1 570424-11-2 570424-12-3
 571206-46-7, 4-Hydroxy-3-methoxy-5-propylthiobenzaldehyde 571206-48-9, 4-Nonylbenzyl iodide

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT 1203-68-5P, [1,1'-Biphenyl]-2-carboxaldehyde 1204-60-0P,
 [1,1'-Biphenyl]-3-carboxaldehyde 6853-57-2P 17012-21-4P
 24076-33-3P 24083-12-3P, 3-Octyloxybenzaldehyde 24083-13-4P,
 4-Octyloxybenzaldehyde 49763-67-9P 49763-69-1P 50262-46-9P
 54784-14-4P 56308-79-3P 59378-87-9P, 3-Pyrrolidinecarboxylic acid 60951-75-9P 61343-82-6P 62299-38-1P 70972-98-4P,
 4-Nonylbenzaldehyde 70972-99-5P, 4-Decylbenzaldehyde 75472-36-5P 75677-08-6P 80407-63-2P 83697-65-8P
 101385-93-7P 101500-22-5P 103057-44-9P 103680-62-2P

108898-23-3P	110943-74-3P	121118-78-3P	131888-48-7P
146936-34-7P	149104-89-2P	167279-18-7P	
169806-13-7P	188548-55-3P	198959-37-4P	
208198-75-3P	246847-91-6P	256488-46-7P	
500191-05-9P	569684-90-8P	569684-91-9P	569684-92-0P
569684-93-1P	569684-94-2P	569684-95-3P	569684-96-4P
569684-97-5P	569684-98-6P	569684-99-7P	569685-00-3P
569685-01-4P	569685-02-5P	569685-03-6P	569685-04-7P
569685-07-0P	569685-08-1P	569685-09-2P	569685-10-5P
569685-12-7P	569685-13-8P	569685-14-9P	
569685-15-0P	569685-16-1P	569685-17-2P	
569685-18-3P	569685-19-4P	569685-20-7P	
569685-21-8P	569685-22-9P	569685-24-1P	
569685-25-2P	569685-26-3P	569685-27-4P	
569685-29-6P	569685-30-9P	569685-31-0P	569685-32-1P
569685-33-2P	569685-34-3P	569685-35-4P	569685-36-5P
569685-37-6P	569685-38-7P	569685-39-8P	
569685-40-1P	569685-41-2P	569685-42-3P	
569685-43-4P	569685-45-6P	569685-46-7P	
569685-49-0P	569685-50-2P	569685-51-4P	
569685-52-5P	570423-06-8P	570423-87-9P	570423-89-1P
570423-91-5P	570423-92-6P	570423-93-7P	
570423-94-8P	570423-95-9P	570423-96-0P	
570423-97-1P	570423-98-2P	570423-99-3P	
570424-00-9P	570424-01-0P	570424-03-2P	
570424-04-3P	570424-05-4P	570424-06-5P	570424-07-6P
571206-22-9P	571206-26-3P	571206-45-6P	571206-47-8P
571206-49-0P	571206-50-3P	571206-51-4P	571206-52-5P
571206-53-6P	571206-54-7P		

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

SEARCH

=> => d his 1119

(FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)
L119 0 S L117 NOT L101

=> d que 1119

L2	424	SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/B1 OR 101385-93-7/B1 OR 101500-22-5/B1 OR 103057-44-9/B1 OR 103680-62-2/B1 OR 103680-71-3/B1 OR 10521-91-2/B1 OR 106-41-2/B1 OR 107-13-1/B1 OR 108898-23-3/B1 OR 110943-74-3/B1 OR 111-70-6/B1 OR 111-86-4/B1 OR 1203-68-5/B1 OR 1204-60-0/B1 OR 121-32-4/B1 OR 121-33-5/B1 OR 121118-78-3/B1 OR 123-08-0/B1 OR 130592-02-8/B1 OR 13138-33-5/B1 OR 131888-48-7/B1 OR 13214-66-9/B1 OR 13477-53-7/B1 OR 13631-21-5/B1 OR 13880-74-5/B1 OR 139-85-5/B1 OR 143-16-8/B1 OR 146936-34-7/B1 OR 148547-19-7/B1 OR 149104-89-2/B1 OR 15174-69-3/B1 OR 167279-18-7/B1 OR 169806-13-7/B1 OR 17012-21-4/B1 OR 18278-34-7/B1 OR 188846-99-3/B1 OR 19463-48-0/B1 OR 198959-37-4/B1 OR 2052-07-5/B1 OR 208108-76-3/B1 OR 2113-57-7/B1 OR 2233-18-3/B1 OR 2314-36-5/B1 OR 23703-22-2/B1 OR 2374-05-2/B1 OR 24076-33-3/B1 OR 24083-12-3/B1 OR 24083-13-4/B1 OR 24220-16-8/B1 OR 2439-54-5/B1 OR 246847-91-6/B1 OR 2495-35-4/B1 OR 25006-17-1/B1 OR 256488-46-7/B1 OR 2973-76-4/B1 OR 2973-77-5/B1 OR 2973-78-6/B1 OR 3111-37-3/B1 OR 3132-99-8/B1 OR 3261-62-9/B1 OR 3300-51-4/B1 OR 3453-33-6/B1 OR 350-92-5/B1 OR 35622-27-6/B1 OR 36476-78-5/B1 OR 3761-92-0/B1 OR 38841-98-4/B1 OR 3964-56-5/B1 OR 401-95-6/B1 OR 40499-83-0/B1 OR 4282-40-0/B1 OR 4282-42-2/B1 OR 4282-44-4/B1 OR 4815-96-7/B1 OR 49763-67-9/B1 OR 49763-69-1/B1 OR 500191-05-9/B1 OR 50262-46-9/B1 OR 50773-56-3/B1 OR 51572-88-4/B1 OR 542-69-8/B1 OR 54256-43-8/B1 OR 5438-36-8/B1 OR 54784-14-4/B1 OR 54963-70-1/B1 OR 556-18-3/B1 OR 56-12-2/B1 OR 56217-93-7/B1 OR 56308-79-3/B1 OR 56962-11-9/B1 OR 569682-66-2/B1 OR 569682-67-3/B1 OR 569682-68-4/B1 OR 569682-69-5/B1 OR 569682-70-8/B1 OR 569682-71-9/B1 OR 569682-72-0/B1 OR 569682-73-1/B1 OR 569682-74-2/B1 OR 569682-75-3/B1 OR 569682-77-5/B1 OR 569682-78-6/B1 OR 569682-79-7/B1 OR 569682-80-0/B1 OR 569682-81-1/B1 OR 569
L3	71	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P AND 1/N
L4	154	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
L5	23	SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
L6	36	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
L7	67	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
L8	7	SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
L9	7	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N20/RF
L10	1	SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
L11	43	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
L12	36	SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
L13	7	SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
L14	12	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
L15	6	SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
L16	1	SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
L17	40	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND 2/NR
L18	9	SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
L19	1	SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N 04/NF
L20	2	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
L21	1	SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O
L22		
L23		

L24 22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
 2-3/O AND C6/RF
 L25 11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
 L26 2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
 L27 4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
 L28 6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
 L29 3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
 L30 6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
 AND 1/P
 L31 6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
 L32 5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
 L33 27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
 L34 10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
 L35 5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
 L37 44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
 L38 32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
 L41 68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
 L42 68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
 L43 157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
 L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
 L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
 OR L38
 L44 199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
 L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW/DT
 L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
 MUN?(A) (SUPPRESS? OR REGT?)
 L52 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT
 L53 QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT
 L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT
 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG?
 L59 QUE ABB=ON PLU=ON EDG1 (A)S1P?
 L70 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
 L72 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
 L74 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT
 L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
 L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
 L80 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
 OLD,NT/CT
 L82 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
 L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
 L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT,OLD,NT/CT
 L88 QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
 L94 QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD/"
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
 L99 714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
 L100 228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
 L101 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
 L105 179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
 L106 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L105
 L109 20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
 L110 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
 O4 P/MF
 L111 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
 N O5 P/MF
 L112 181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111
 L113 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L112

L114 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L106 OR L113
 L115 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L114 AND L48
 L116 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L115 AND (L50 OR (L52
 OR L53) OR L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR
 L76 OR L78 OR L80)
 L117 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND (L82 OR L84
 OR L86 OR L88 OR L94)
 L119 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L117 NOT L101

=> d his l121

(FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)

L121 0 S L120 NOT L101

=> d que l121

L2 424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/B1 OR
 101385-93-7/B1 OR 101500-22-5/B1 OR 103057-44-9/B1 OR
 103680-62-2/B1 OR 103680-71-3/B1 OR 10521-91-2/B1 OR
 106-41-2/B1 OR 107-13-1/B1 OR 108898-23-3/B1 OR
 110943-74-3/B1 OR 111-70-6/B1 OR 111-86-4/B1 OR
 1203-68-5/B1 OR 1204-60-0/B1 OR 121-32-4/B1 OR
 121-33-5/B1 OR 121118-78-3/B1 OR 123-08-0/B1 OR
 130592-02-8/B1 OR 13138-33-5/B1 OR 131888-48-7/B1 OR
 13214-66-9/B1 OR 13477-53-7/B1 OR 13631-21-5/B1 OR
 13880-74-5/B1 OR 139-85-5/B1 OR 143-16-8/B1 OR
 146936-34-7/B1 OR 148547-19-7/B1 OR 149104-89-2/B1 OR
 15174-69-3/B1 OR 167279-18-7/B1 OR 169806-13-7/B1 OR
 17012-21-4/B1 OR 18278-34-7/B1 OR 188846-99-3/B1 OR
 19463-48-0/B1 OR 198959-37-4/B1 OR 2052-07-5/B1 OR
 208108-76-3/B1 OR 2113-57-7/B1 OR 2233-18-3/B1 OR
 2314-36-5/B1 OR 23703-22-2/B1 OR 2374-05-2/B1 OR
 24076-33-3/B1 OR 24083-12-3/B1 OR 24083-13-4/B1 OR
 2420-16-8/B1 OR 2439-54-5/B1 OR 246847-91-6/B1 OR
 2495-35-4/B1 OR 25006-17-1/B1 OR 256488-46-7/B1 OR
 2973-76-4/B1 OR 2973-77-5/B1 OR 2973-78-6/B1 OR
 3111-37-3/B1 OR 3132-99-8/B1 OR 3261-62-9/B1 OR
 3300-51-4/B1 OR 3453-33-6/B1 OR 350-92-5/B1 OR
 35622-27-6/B1 OR 36476-78-5/B1 OR 3761-92-0/B1 OR
 38841-98-4/B1 OR 3964-56-5/B1 OR 401-95-6/B1 OR
 40499-83-0/B1 OR 4282-40-0/B1 OR 4282-42-2/B1 OR
 4282-44-4/B1 OR 4815-96-7/B1 OR 49763-67-9/B1 OR
 49763-69-1/B1 OR 500191-05-9/B1 OR 50262-46-9/B1 OR
 50773-56-3/B1 OR 51572-88-4/B1 OR 542-69-8/B1 OR
 54256-43-8/B1 OR 5438-36-8/B1 OR 54784-14-4/B1 OR
 54963-70-1/B1 OR 556-18-3/B1 OR 56-12-2/B1 OR 56217-93-
 7/B1 OR 56308-79-3/B1 OR 56962-11-9/B1 OR 569682-66-2/B
 I OR 569682-67-3/B1 OR 569682-68-4/B1 OR 569682-69-5/B
 OR 569682-70-8/B1 OR 569682-71-9/B1 OR 569682-72-0/B
 OR 569682-73-1/B1 OR 569682-74-2/B1 OR 569682-75-3/B
 OR 569682-77-5/B1 OR 569682-78-6/B1 OR 569682-79-7/B
 OR 569682-80-0/B1 OR 569682-81-1/B1 OR 569

L3 71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
 AND 1/N

L4 154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
 L6 23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
 L8 36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
 L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
 L10 7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
 L11 7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
 L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
 L13 43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
 L14 36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
 L15 7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
 L16 12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
 L17 6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
 L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11

L19 40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
 2/NR
 L20 9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
 L21 1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
 O4/MF
 L22 2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O
 L24 22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
 2-3/O AND C6/RF
 L25 11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
 L26 2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
 L27 4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
 L28 6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
 L29 3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
 L30 6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
 AND 1/P
 L31 6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
 L32 5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
 L33 27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
 L34 10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
 L35 5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
 L37 44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
 L38 32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
 L41 68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
 L42 68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
 L43 157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
 L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
 L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
 OR L38
 L44 199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
 L45 849 SEA FILE=HCAPLUS ABB=ON PLU=ON L44
 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
 L46 483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW/DT
 L47 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
 QUE ABB=ON PLU=ON IMMUNOSUPPRE? OR IMMUNOREG? OR IM
 MUN?(A) (SUPPRESS? OR REG?)
 L51 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
 L60 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P?
 L61 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
 L68 QUE ABB=ON PLU=ON AUTOIMMUN?
 L69 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT
 L70 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
 L72 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT
 L73 41 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
 L74 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT
 L75 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74
 L76 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT
 L77 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76
 L78 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT
 L79 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78
 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
 OLD, NT/CT
 L80 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80
 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT
 L82 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82
 L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT
 L85 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84
 L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT
 L87 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86
 L88 QUE ABB=ON PLU=ON DERMATITIS+PFT, OLD, NT/CT

L89 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L88
 L90 68 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 OR L61 OR L69 OR
 L71 AND L73 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85
 OR L89 OR L87
 L94 QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
 L95 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
 L96 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROGEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CG,SO,CO
 L99 714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
 L100 228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
 L101 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
 L120 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 AND L50
 L121 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L120 NOT L101

=> d his l122
 (FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)
 L122 12 S L113 NOT (L118 OR L120)

=> d que l122
 L2 424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR
 101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR
 103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR
 106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR
 110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR
 1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR
 121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR
 130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR
 13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR
 13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR
 146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR
 15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR
 17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR
 19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR
 208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR
 2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR
 24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR
 2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR
 2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR
 2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR
 3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR
 3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR
 35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR
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 40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR
 4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR
 49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR
 50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR
 54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR
 54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-
 7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B
 I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI
 OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI
 OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI
 OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI
 OR 569682-80-0/BI OR 569682-81-1/BI OR 569
 L3 71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
 AND 1/N
 L4 154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
 L6 23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
 L8 36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF

L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
 L10 7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
 L11 7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
 L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
 L13 43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
 L14 36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
 L15 7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
 L16 12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
 L17 6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
 L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
 L19 40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
 2/NR
 L20 9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
 L21 1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
 04/MF
 L22 2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O

 L24 22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
 2-3/O AND C6/RF
 L25 11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
 L26 2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
 L27 4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O

 L28 6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
 L29 3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
 L30 6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
 AND 1/P
 L31 6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
 L32 5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
 L33 27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
 L34 10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
 L35 5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
 L37 44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS

 L38 32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
 L41 68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
 L42 68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
 L43 157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
 L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
 L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
 OR L38
 L44 199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
 L45 849 SEA FILE=HCAPLUS ABB=ON PLU=ON L44
 L46 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
 L47 483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
 L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
 MY<2003 OR REVIEW/DT
 L49 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
 L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
 MUN?(A) (SUPPRESS? OR REG?)
 L51 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
 L52 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT, OLD, NT/CT
 L53 QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT, OLD, NT/CT
 L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT
 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG?
 L59 QUE ABB=ON PLU=ON EDG1(A)S1P?
 L60 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P?
 L61 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
 L68 QUE ABB=ON PLU=ON AUTOIMMUN?
 L69 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
 L70 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT
 L71 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
 L72 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT
 L73 41 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
 L74 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT

L75 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74
 L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
 L77 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76
 L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
 L79 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78
 L80 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
 OLD,NT/CT
 L81 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80
 L82 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
 L83 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82
 L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
 L85 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84
 L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT,OLD,NT/CT
 L87 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86
 L88 QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
 L89 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L88
 L90 68 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 OR L61 OR L69 OR
 L71 AND L73 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85
 OR L89 OR L87
 L94 QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
 L95 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
 L96 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
 L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
 A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
 AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
 "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
 "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
 L99 714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
 L100 228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
 L101 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
 L103 28 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 NOT L101
 L105 179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
 L106 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L105
 L109 20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
 L110 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
 04 P/MF
 L111 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
 N 05 P/MF
 L112 181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111

 L113 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L112
 L114 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L106 OR L113
 L115 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L114 AND L48
 L116 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L115 AND (L50 OR (L52
 OR L53) OR L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR
 L76 OR L78 OR L80)
 L117 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND (L82 OR L84
 OR L86 OR L88 OR L94)
 L118 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L117 NOT L103
 L120 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 AND L50
 L122 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L113 NOT (L118 OR
 L120)

=> d his l127

(FILE 'MEDLINE, BIOSIS, DRUGB, EMBASE' ENTERED AT 12:40:59 ON 27
 JUL 2007)

L127 O S L126

=> d que l127

L2 424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR
 101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR
 103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR
 106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR
 110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR

1203-68-5/B1 OR 1204-60-0/B1 OR 121-32-4/B1 OR
 121-33-5/B1 OR 121118-78-3/B1 OR 123-08-0/B1 OR
 130592-02-8/B1 OR 13138-33-5/B1 OR 131888-48-7/B1 OR
 13214-66-9/B1 OR 13477-53-7/B1 OR 13631-21-5/B1 OR
 13880-74-5/B1 OR 139-85-5/B1 OR 143-16-8/B1 OR
 146936-34-7/B1 OR 148547-19-7/B1 OR 149104-89-2/B1 OR
 15174-69-3/B1 OR 167279-18-7/B1 OR 169806-13-7/B1 OR
 17012-21-4/B1 OR 18278-34-7/B1 OR 188846-99-3/B1 OR
 19463-48-0/B1 OR 198959-37-4/B1 OR 2052-07-5/B1 OR
 208108-76-3/B1 OR 2113-57-7/B1 OR 2233-18-3/B1 OR
 2314-36-5/B1 OR 23703-22-2/B1 OR 2374-05-2/B1 OR
 24076-33-3/B1 OR 24083-12-3/B1 OR 24083-13-4/B1 OR
 2420-16-8/B1 OR 2439-54-5/B1 OR 246847-91-6/B1 OR
 2495-35-4/B1 OR 25006-17-1/B1 OR 256488-46-7/B1 OR
 2973-76-4/B1 OR 2973-77-5/B1 OR 2973-78-6/B1 OR
 3111-37-3/B1 OR 3132-99-8/B1 OR 3261-62-9/B1 OR
 3300-51-4/B1 OR 3453-33-6/B1 OR 350-92-5/B1 OR
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 40499-83-0/B1 OR 4282-40-0/B1 OR 4282-42-2/B1 OR
 4282-44-4/B1 OR 4815-96-7/B1 OR 49763-67-9/B1 OR
 49763-69-1/B1 OR 500191-05-9/B1 OR 50262-46-9/B1 OR
 50773-56-3/B1 OR 51572-88-4/B1 OR 542-69-8/B1 OR
 54256-43-8/B1 OR 5438-36-8/B1 OR 54784-14-4/B1 OR
 54963-70-1/B1 OR 556-18-3/B1 OR 56-12-2/B1 OR 56217-93-
 7/B1 OR 56308-79-3/B1 OR 56962-11-9/B1 OR 569682-66-2/B
 I OR 569682-67-3/B1 OR 569682-68-4/B1 OR 569682-69-5/B
 OR 569682-70-8/B1 OR 569682-71-9/B1 OR 569682-72-0/B1
 OR 569682-73-1/B1 OR 569682-74-2/B1 OR 569682-75-3/B1
 OR 569682-77-5/B1 OR 569682-78-6/B1 OR 569682-79-7/B1
 OR 569682-80-0/B1 OR 569682-81-1/B1 OR 56

L3 71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
 AND 1/N

L4 154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
 L6 23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
 L8 36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
 L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF

L10 7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
 L11 7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
 L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11

L13 43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
 L14 36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
 L15 7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
 L16 12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
 L17 6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
 L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
 L19 40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
 2/NR

L20 9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
 L21 1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
 04/MF

L22 2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O

L24 22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
 2-3/O AND C6/RF

L25 11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
 L26 2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
 L27 4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O

L28 6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
 L29 3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
 L30 6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
 AND 1/P

L31 6 SEA FILE=REGISTRY ABB=ON PLU=ON L115 AND 4/NR
 L32 5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
 L33 27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O

L34 10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
 L35 5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
 L37 44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS

 L38 32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
 L41 68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
 L42 68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
 L43 157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
 L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
 L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
 OR L38
 L44 199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
 L105 179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
 L109 20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
 L110 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
 O4 P/MF
 L111 1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
 N O5 P/MF
 L112 181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111

 L126 0 SEA FILE=REGISTRY ABB=ON PLU=ON L112 AND EMBASE/LC
 L127 0 SEA L126

-> dup rem l119 l121 l122 l127
 L119 HAS NO ANSWERS
 L121 HAS NO ANSWERS
 L127 HAS NO ANSWERS
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 FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

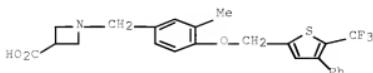
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 PROCESSING COMPLETED FOR L121
 PROCESSING COMPLETED FOR L122
 PROCESSING COMPLETED FOR L127
 L134 12 DUP REM L119 L121 L122 L127 (0 DUPLICATES REMOVED)
 ANSWERS '1-12' FROM FILE HCAPLUS

SEARCH RESULTS

=> d l134 1-12 ibib ed abs hitstr hitind

L134 ANSWER 1 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:262972 HCPLUS [Full-text](#)
 DOCUMENT NUMBER: 146:474760
 TITLE: Identification of Leu276 of the S1P1 receptor and Phe263 of the S1P3 receptor in interaction with receptor specific agonists by molecular modeling, site-directed mutagenesis, and affinity studies
 AUTHOR(S): Deng, Qiaolin; Clemas, Joseph A.; Chrebet, Gary; Fischer, Paul; Hale, Jeffrey J.; Li, Zhen; Mills, Sander G.; Bergstrom, James; Mandala, Suzanne; Mosley, Ralph; Parent, Stephen A.
 CORPORATE SOURCE: Department of Molecular Systems, Merck Research Laboratories, Rahway, NJ, USA
 SOURCE: Molecular Pharmacology (2007), 71(3), 724-735
 CODEN: MOPMA3; ISSN: 0026-895X
 PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 12 Mar 2007
 AB Sphingosine-1-phosphate (S1P) receptor agonists are novel immunosuppressive agents. The selectivity of S1P against S1P3 is strongly correlated with lymphocyte sequestration and min. acute toxicity and bradycardia. This study describes mol. modeling, site-directed mutagenesis, and affinity studies exploring the mol. basis for selectivity between S1P1 and S1P3 receptors. Computational models of human S1P1 and S1P3 receptors bound with two nonselective agonists or two S1P1-selective agonists were developed based on the x-ray crystal structure of bovine rhodopsin. The models predict that S1P1 Leu276 and S1P3 Phe263 contribute to the S1P1/S1P3 selectivity of the two S1P1-selective agonists. These residues were subjected to site-directed mutagenesis. The wild-type and mutant S1P receptors were expressed in Chinese hamster ovary cells and examined for their abilities to bind to and be activated by agonists in vitro. The results indicate that the mutations have minimal effects on the activities of the two nonselective agonists, although they have dramatic effects on the S1P1-selective agonists. These studies provide a fundamental understanding of how these two receptor-selective agonists bind to the S1P1 and S1P3 receptors, which should aid development of more selective S1P1 receptor agonists with immunosuppressive properties and improved safety profiles.
 IT 570423-80-2
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (identification of Leu276 of S1P1 receptor and Phe263 of S1P3 receptor in interaction with receptor specific agonists by mol. modeling, site-directed mutagenesis, and affinity studies)
 RN 570423-80-2 HCPLUS
 CN 3-Azetidinocarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)



CC 1-3 (Pharmacology)
 IT 26993-30-6, Sphingosine 1-phosphate 162359-56-0, FTY720

402615-91-2, FTY720-P 570413-60-2 635701-59-6

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identification of Leu276 of SIP1 receptor and Phe263 of SIP3 receptor in interaction with receptor specific agonists by mol. modeling, site-directed mutagenesis, and affinity studies)

REFERENCE COUNT: 45 THERE ARE 45 CITE REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 2 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1311129 HCPLUS Full-text
 DOCUMENT NUMBER: 1461:62699
 TITLE: Preparation of polycyclic oxadiazoles or isoxazoles as SIP receptor ligands
 INVENTOR(S): Albert, Rainer; Weiler, Sven; Zecri, Frederic
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
 SOURCE: PCT Int. Appl., 53pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

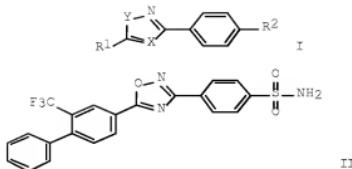
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006131336	A1	20061214	WO 2006-EP5422	2006 0607

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,
 ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV,
 LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
 OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL,
 SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:	GB 2005-11684	A	2005 0608
	GB 2005-25064	A	2005 1208
	GB 2006-405	A	2006 0110

OTHER SOURCE(S): MARPAT 146:62699
 ED Entered STN: 15 Dec 2006
 GI



AB Title compds. represented by the formula I [wherein X = -N=, Y = O; X = -O-, Y = -NH=; R1 = substituted biphenyl, 4-phenoxyphenyl or 4-(phenylalkoxy)phenyl; R2 = (un)substituted alkyl, amino, sulfamoyl, etc.; and physiol. hydrolyzable derivs., hydrates or solvates thereof] were prepared as sphingosine-1-phosphate (S1P) receptor ligands. For example, II was provided in a multi-step synthesis starting from 4-chloro-3-trifluoromethylbenzoic acid. I showed binding affinity to human S1P1 receptor with EC50 < 1 nM, are active in in vitro FLIPR calcium flux assay at a concentration of from 10-12-3.10-5 nM, and have EC50 of less than 10 mg/kg in in vivo screening assays for measurement of blood lymphocyte depletion. Thus, I and their pharmaceutical compns. are useful as S1P receptor ligands, particularly as immunosuppressants.

IT 569685-50-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

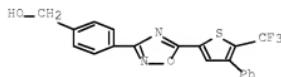
THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of polycyclic oxadiazoles or isoxazoles as S1P receptor ligands)

RN 569685-50-3 HCPLUS

CN Benzenemethanol, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT 569685-50-3P 916804-38-1P 916804-44-9P 916804-47-2P
916804-50-7P 916804-53-0P 916804-57-4P 916804-70-1P
916804-77-8P 916804-85-8P 916804-91-6P 916804-98-3P
916805-01-1P 916805-05-5P 916805-07-7P 916805-09-9P
916805-11-3P 916805-13-5P 916805-15-7P 916805-16-8P
916805-17-9P 916805-18-0P 916805-19-1P 916805-20-4P
916805-21-5P 916805-22-6P 916805-23-7P 916805-24-8P
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 916806-84-3P 916806-85-4P 916833-78-8P 916833-79-9P
 916833-80-2P 916833-81-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of polycyclic oxadiazoles or isoxazoles as S1P receptor
 ligands)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L134 ANSWER 3 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:818237 HCPLUS Full-text
 DOCUMENT NUMBER: 1451:224859
 TITLE: Antilymphocyte antibody induction for
 prevention of transplant rejection
 INVENTOR(S): Aradhya, Shreeram
 PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma GmbH
 SOURCE: PCT Int. Appl., 21pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2006086361	A2	20060817	WO 2006-US4234	2006 0206
WO 2006086361	A3	20070118	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	

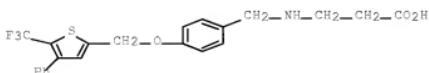
SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006072562	A1	20060713	WO 2006-EP3	2006 0102
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			GB 2005-20	A 2005 0104

OTHER SOURCE(S): MARPAT 145:117363
 ED Entered STN: 13 Jul 2006
 AB SIP receptor agonists are useful for the treatment of hepatitis C or chronic hepatitis C (HCV).
 IT 569684-46-4 569684-82-8
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (SIP receptor agonists for treatment of hepatitis C virus disorders)
 RN 569684-46-4 HCPLUS
 CN Phosphonic acid, [1-hydroxy-3-[(4-nonylphenyl)methyl]amino]propyl
]- (9CI) (CA INDEX NAME)



RN 569684-82-8 HCPLUS
 CN β -Alanine, N-[(4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl)methyl]- (9CI) (CA INDEX NAME)

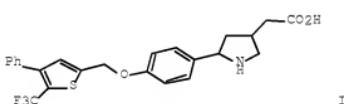
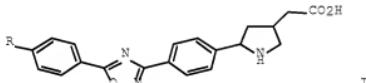


CC 1-5 (Pharmacology)
 IT 569684-46-4 569684-82-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (S1P receptor agonists for treatment of hepatitis C virus disorders)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:499151 HCAPLUS Full-text
 DOCUMENT NUMBER: 145:145483
 TITLE: 2-Aryl(pyrrolidin-4-yl)acetic acids are potent agonists of sphingosine-1-phosphate (S1P) receptors
 AUTHOR(S): Yan, Lin; Budhu, Richard; Huo, Pei; Lynch, Christopher L.; Hale, Jeffrey J.; Mills, Sander G.; Hajdu, Richard; Keohane, Carol A.; Rosenbach, Mark J.; Milligan, James A.; Shei, Gan-Ju; Chrebet, Gary; Bergstrom, James; Card, Deborah; Mandala, Suzanne M.
 CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, 07065, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16 (13), 3564-3568
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 145:145483
 ED Entered STN: 29 May 2006
 GI



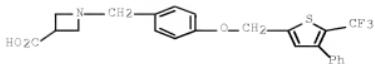
AB 2-Aryl(pyrrolidin-4-yl)acetic acids I [R = i-Bu, cyclopentyl, cyclohexyl, F3C(CH₂)₂, 3,3-difluoro-1-cyclopentyl, 4,4-difluoro-1-cyclohexyl] and II were synthesized and their biol. activities as agonists of S1P receptors were evaluated. These analogs were able to induce lowering of lymphocyte counts in the peripheral blood of mice and were found to have good overall pharmacokinetic properties in rats.

IT 570423-67-5
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); BIOL (Biological study)

(preparation and biol. activity of thiophene- or oxadiazole-functionalized (aryl)pyrrolidineacetic acids as potent agonists of sphingosine-1-phosphate receptors)

RN 570423-67-5 HCAPLUS

CN 3-Azetidinocarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



CC 27-10 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1, 28

IT 570423-67-5 635701-59-6

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); BIOL (Biological study)

(preparation and biol. activity of thiophene- or oxadiazole-functionalized (aryl)pyrrolidineacetic acids as potent agonists of sphingosine-1-phosphate receptors)

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 6 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:772794 HCPLUS Full-text

DOCUMENT NUMBER: 1451:369215

TITLE: Species differences in metabolism and pharmacokinetics of a sphingosine-1-phosphate receptor agonist in rats and dogs: formation of a unique glutathione adduct in the rat

AUTHOR(S): Anari, M. Reza; Creighton, Melissa D.; Ngui, Jason S.; Tschirret-Guth, Richard A.; Teffera, Yohannes; Doss, George A.; Tang, Wei; Yu, Nathan X.; Ciccotto, Suzanne L.; Hobra, Donald F., Jr.; Coleman, John B.; Vincent, Stella H.; Evans, David C.

CORPORATE SOURCE: Department of Drug Metabolism, Merck Research Laboratories, West Point, PA, USA

SOURCE: Drug Metabolism and Disposition (2006), 34(8), 1367-1375

CODEN: DMDSAI; ISSN: 0090-9556

PUBLISHER: American Society for Pharmacology and Experimental Therapeutics

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 06 Aug 2006

AB The pharmacokinetics and metabolism of 1-[(4-phenyl-5-(trifluoromethyl)-2-thienyl)methoxy]benzyl)azetidine-3-carboxylic acid (MRL-A), a selective agonist for the sphingosine-1-phosphate 1 (S1P1) receptor, were investigated in rats and dogs. In both species, more than 50% of the dose was excreted in bile. Specific to the rat, and observed in bile, were a taurine conjugate of MRL-A and a glucuronide conjugate of an azetidine lactam metabolite. In dogs, a smaller portion of the dose (54% of administered dose) was excreted intact in bile, and the major metabolites detected were an azetidine N-oxide of MRL-A and an acylglucuronide of an N-dealkylation product. This latter metabolite was also observed in rat bile. Stereoselective formation of the N-oxide isomer was observed in dogs, whereas the rat produced comparable ams. of both isomers. The formation of a unique glutathione adduct was observed in rat bile, which was proposed to occur via N-dealkylation, followed by reduction of the putative aldehyde product to form the alc., and dehydration of the alc. to generate a reactive quinone methide intermediate. Incubation of a synthetic standard of this alc. in rat microsomes fortified with reduced glutathione or rat hepatocytes resulted in formation of this unique glutathione adduct.

IT 570423-67-5, MRL-A

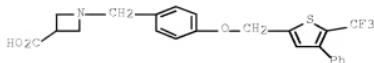
RL: PKT (Pharmacokinetics); BIOL (Biological study)

(species differences in metabolism and pharmacokinetics of a sphingosine-1-phosphate receptor agonist MRL-A in rats and dogs)

RN 570423-67-5 HCPLUS

CN 3-Azetidinecarboxylic acid, 1-[(4-[(4-phenyl-5-(trifluoromethyl)-2-

thienyl]methoxy]phenyl)methyl] - (9CI) (CA INDEX NAME)



CC 1-2 (Pharmacology)

IT 570423-67-5, MRL-A

RL: PKT (Pharmacokinetics); BIOL (Biological study)

(species differences in metabolism and pharmacokinetics of a sphingosine-1-phosphate receptor agonist MRL-A in rats and dogs)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 7 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:986123 HCPLUS Full-text

DOCUMENT NUMBER: 143:431986

TITLE: Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole Sphingosine-1-phosphate-1 (S1P1) Receptor Agonists with Exceptional Selectivity against S1P2 and S1P3

AUTHOR(S): Li, Zhen; Chen, Weirong; Hale, Jeffrey J.; Lynch, Christopher L.; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark J.; Milligan, James A.; Shel, Gan-Ju; Chrebet, Gary; Parent, Stephen A.; Bergstrom, James; Card, Deborah; Forrest, Michael; Quackenbush, Elizabeth J.; Wickham, L. Alexandra; Vargas, Hugo; Evans, Rose M.; Rosen, Hugh; Mandala, Suzanne

CORPORATE SOURCE: Departments of Medicinal Chemistry and Immunology, Rheumatology Research, Merck Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Journal of Medicinal Chemistry (2005), 48(20), 6169-6173

CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:431986

ED Entered STN: 11 Sep 2005

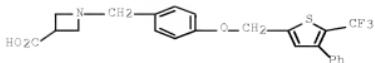
AB A class of 3,5-diphenyl-1,2,4-oxadiazole based compds. have been identified as potent sphingosine-1-phosphate-1 (S1P1) receptor agonists with minimal affinity for the S1P2 and S1P3 receptor subtypes. Analog 26 (S1P1 IC₅₀ = 0.6 nM) has an excellent pharmacokinetics profile in the rat and dog and is efficacious in a rat skin transplant model, indicating that S1P3 receptor agonism is not a component of immunosuppressive efficacy.

IT 570423-67-5 570423-80-2

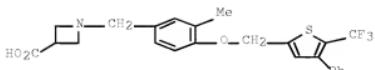
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole Sphingosine-1-phosphate-1 (S1P1) Receptor Agonists with Exceptional Selectivity)

RN 570423-67-5 HCPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl] - (9CI) (CA INDEX NAME)



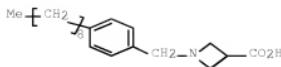
RN 570423-80-2 HCPLUS
 CN 3-Azetidinecarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)



CC 1-3 (Pharmacology)
 Section cross-reference(s): 28
 IT 159222-57-8 162359-55-9 402615-91-2 570423-67-5
 570423-80-2
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole Sphingosine-1-phosphate-1 (S1P1) Receptor Agonists with Exceptional Selectivity)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 8 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:1048937 HCPLUS [Full-text](#)
 DOCUMENT NUMBER: 142:147835
 TITLE: A Rational Utilization of High-Throughput Screening Affords Selective, Orally Bioavailable 1-Benzyl-3-carboxyazetidine Sphingosine-1-phosphate-1 Receptor Agonists
 AUTHOR(S): Hale, Jeffrey J.; Lynch, Christopher L.; Neway, William; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark J.; Milligan, James A.; Shei, Gan-Ju; Parent, Stephen A.; Chrebet, Gary; Bergstrom, James; Card, Deborah; Ferrer, Marc; Hodder, Peter; Strulovici, Berta; Rosen, Hugh; Mandala, Suzanne
 CORPORATE SOURCE: Departments of Medicinal Chemistry and Immunology and Rheumatology Research, Merck Research Laboratories, Rahway, NJ, 07065, USA
 SOURCE: Journal of Medicinal Chemistry (2004), 47(27), 6662-6665
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:147835
 ED Entered STN: 08 Dec 2004
 GI



I

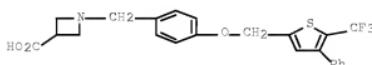
AB Moderately potent, selective S1P1 receptor agonists identified from high-throughput screening have been adapted into lipophilic tails for a class of orally bioavailable amino acid-based S1P1 agonists represented by I. Many of the new compds. are potent S1P1 agonists that select against the S1P2, S1P3, and S1P4 (although not S1P5) receptor subtypes. Two of the analogs are highly orally bioavailable and possess excellent pharmacokinetic profiles in the rat, dog, and rhesus monkey.

IT 570423-67-5P 570423-76-6P 570423-80-2P
570423-81-3P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists and immunosuppressants: high-throughput screening for oral bioavailability and preparation)

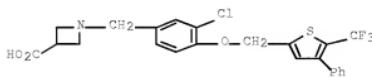
RN 570423-67-5 HCPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



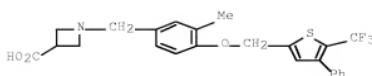
RN 570423-76-6 HCPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-chloro-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

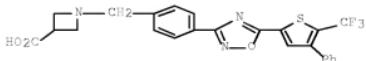


RN 570423-80-2 HCPLUS

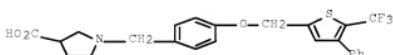
CN 3-Azetidinecarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)



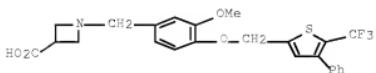
RN 570423-81-3 HCAPLUS
 CN 3-Azetidinecarboxylic acid, 1-[[4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]phenyl]methyl]- (9CI) (CA INDEX NAME)



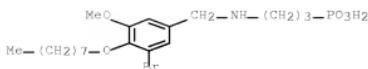
IT 570423-45-9P 570423-78-EP
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral
 bioavailability and preparation)
 RN 570423-45-9 HCAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-[[4-[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



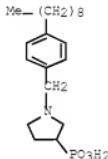
RN 570423-78-8 HCAPLUS
 CN 3-Azetidinecarboxylic acid, 1-[[3-methoxy-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



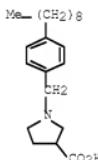
IT 569683-55-2 570423-38-0 570423-46-4
 570423-68-6
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral
 bioavailability and preparation)
 RN 569683-55-2 HCAPLUS
 CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



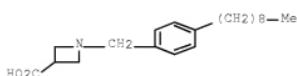
RN 570423-38-0 HCAPLUS
 CN Phosphonic acid, [1-[(4-nonylphenyl)methyl]-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 570423-46-0 HCAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-[(4-nonylphenyl)methyl]- (9CI)
 (CA INDEX NAME)

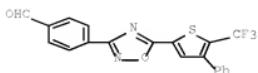


RN 570423-68-6 HCAPLUS
 CN 3-Azetidinecarboxylic acid, 1-[(4-nonylphenyl)methyl]- (9CI) (CA
 INDEX NAME)

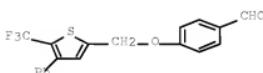


IT 569685-42-3P 569685-43-4P 569685-49-0P
 569685-50-3P
 RL: RCT (Reactant); SPM (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral

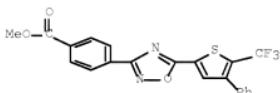
bioavailability and preparation)
 RN 569685-42-3 HCPLUS
 CN Benzaldehyde, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)



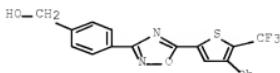
RN 569685-43-4 HCPLUS
 CN Benzaldehyde, 4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]- (9CI) (CA INDEX NAME)



RN 569685-49-0 HCPLUS
 CN Benzoic acid, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]-, methyl ester (9CI) (CA INDEX NAME)



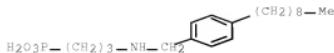
RN 569685-50-3 HCPLUS
 CN Benzenemethanol, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



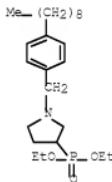
CC 1-3 (Pharmacology)
 Section cross-reference(s): 27
 IT 570423-67-5P 570423-78-6P 570423-80-3P
 570423-81-3P
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists and immunosuppressants: high-throughput screening for oral

bioavailability and preparation)
 IT 570423-45-9P 570423-78-5P 828269-16-5P
 828269-17-6P 828269-18-7P 828269-19-8P 828269-20-1P
 828269-21-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral
 bioavailability and preparation)
 IT 162359-56-0, FTY 720 256414-75-2 256414-76-3 256414-81-0
 402615-91-2 569683-55-2 570423-38-0
 570423-46-0 570423-68-6 725724-60-7
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral
 bioavailability and preparation)
 IT 146936-34-7P 167279-18-7P 208108-76-3P 256488-46-7P
 569685-42-3P 569685-43-4P 569685-49-0P
 569685-50-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
 and immunosuppressants: high-throughput screening for oral
 bioavailability and preparation)
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

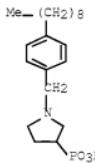
L134 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:729837 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 141:395611
 TITLE: Design and synthesis of conformationally
 constrained 3-(N-alkylamino)propylphosphonic
 acids as potent agonists of
 sphingosine-1-phosphate (S1P) receptors
 AUTHOR(S): Yan, Lin; Hale, Jeffrey J.; Lynch, Christopher
 L.; Budhu, Richard; Gentry, Amy; Mills, Sander
 G.; Hajdu, Richard; Keohane, Carol Ann;
 Rosenbach, Mark J.; Milligan, James A.; Shei,
 Gan-Ju; Chrebet, Gary; Bergstrom, James; Card,
 Deborah; Rosen, Hugh; Mandala, Suzanne M.
 CORPORATE SOURCE: Department of Medicinal Chemistry, Merck
 Research Laboratories, Rahway, NJ, 07065, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters
 (2004), 14(19), 4861-4866
 CODEN: BMCL8; ISSN: 0960-894X
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:395611
 ED Entered STN: 08 Sep 2004
 AB Conformationally constrained 3-(N-alkylamino)propylphosphonic acids were systematically
 synthesized and their activities as S1P receptor agonists were evaluated. Several
 pyrrolidine and cyclohexane analogs had S1P receptor profiles comparable to the acyclic
 lead compound, 3-(N-tetradecylamino)propylphosphonic acid (3), lowered circulating
 lymphocytes in mice after iv administration and were thus identified as being suitable
 for further studies.
 IT 569684-50-0
 RL: PAC (Pharmacological activity); BIOL (Biological study)
 (design and synthesis of conformationally constrained
 (alkylamino)propylphosphonic acids as potent agonists of
 sphingosinephosphate (S1P) receptors)
 RN 569684-50-0 HCAPLUS
 CN Phosphonic acid, [3-[[4-nonylphenyl)methyl]amino]propyl- (9CI)
 (CA INDEX NAME)



IT 570423-96-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (design and synthesis of conformationally constrained (alkylamino)propylphosphonic acids as potent agonists of sphingosinephosphate (S1P) receptors)
 RN 570423-96-0 HCPLUS
 CN Phosphonic acid, [1-[(4-nonylphenyl)methyl]-3-pyrrolidinyl]-, diethyl ester (9CI) (CA INDEX NAME)



IT 570423-38-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of alkylpyrrolidinylphosphonate as conformationally constrained (alkylamino)propylphosphonic acids useful as potent agonists of sphingosinephosphate (S1P) receptors)
 RN 570423-38-0 HCPLUS
 CN Phosphonic acid, [1-[(4-nonylphenyl)methyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



CC 29-7 (Organometallic and Organometalloidal Compounds)
 Section cross-reference(s): 1
 IT 402615-91-2 569684-50-0 725724-60-7 785815-68-1
 RL: PAC (Pharmacological activity); BIOL (Biological study)
 (design and synthesis of conformationally constrained (alkylamino)propylphosphonic acids as potent agonists of

sphingosinephosphate (SIP) receptors)

IT 17012-21-4P 157634-00-9P 570423-92-6P 570423-96-0P
 849811-77-4P 849811-93-4P 849811-94-5P 849812-00-6P
 849812-20-0P 849812-22-2P 849812-30-2P 849812-61-9P
 849813-76-9P 849813-78-1P 849813-85-0P 849813-86-1P
 849813-88-3P 849814-14-8P 849814-16-0P 849814-18-2P
 849814-20-6P 849814-22-8P 849814-23-9P 849815-30-1P
 849816-37-1P 849816-38-2P 849816-39-3P 849816-43-9P
 849816-44-0P 849816-48-4P 849816-51-9P 849816-84-8P
 849817-15-8P 849817-72-7P 849818-04-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(design and synthesis of conformationally constrained (alkylamino)propylphosphonic acids as potent agonists of sphingosinephosphate (SIP) receptors)

IT 570423-38-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of alkylpyrrolidinylphosphonate as conformationally constrained (alkylamino)propylphosphonic acids useful as potent agonists of sphingosinephosphate (SIP) receptors)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 10 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:465500 HCPLUS [Full-text](#)
 DOCUMENT NUMBER: 141:116457
 TITLE: Selecting against SIP3 enhances the acute cardiovascular tolerability of 3-(N-benzyl)aminopropylphosphonic acid SIP receptor agonists

AUTHOR(S): Hale, Jeffrey J.; Doherty, George; Toth, Leslie; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark; Milligan, James; Shei, Gan-Ju; Chrebet, Gary; Bergstrom, James; Card, Deborah; Forrest, Michael; Sun, Shu-Yu; West, Sarah; Xie, Huijuan; Nomura, Naomi; Rosen, Hugh; Mandala, Suzanne

CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14 (13), 3501-3505
 CODEN: BMCL8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:116457

ED Entered STN: 10 Jun 2004

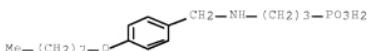
AB Structurally modified 3-(N-benzylamino)propylphosphonic acid SIP receptor agonists that maintain affinity for SIP1, and have decreased affinity for SIP3 are efficacious, but exhibit decreased acute cardiovascular toxicity in rodents compared to nonselective agonists.

IT 569682-67-3P 569682-68-4P 569682-73-1P
 569682-91-3P 569682-93-5P 569682-97-9P
 569682-99-1P 569682-61-EP 569683-30-3P
 569683-32-5P 569683-34-7P 569683-55-2P
 569683-59-6P 569683-61-0P 569683-63-2P
 569683-70-1P 569683-76-7P 569683-78-9P
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 569684-32-8P 569684-50-0P

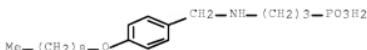
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(selecting against SIP3 enhances acute cardiovascular tolerability of 3-(N-benzyl)aminopropylphosphonic acid SIP

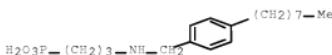
receptor agonists)
 RN 569682-67-3 HCPLUS
 CN Phosphonic acid, [3-[[[4-(octyloxy)phenyl]methyl]amino]propyl]-
 (9CI) (CA INDEX NAME)



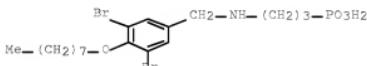
RN 569682-68-4 HCPLUS
 CN Phosphonic acid, [3-[[[4-(nonyloxy)phenyl]methyl]amino]propyl]-
 (9CI) (CA INDEX NAME)



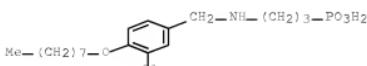
RN 569682-73-1 HCPLUS
 CN Phosphonic acid, [3-[[[4-octylphenyl]methyl]amino]propyl]- (9CI)
 (CA INDEX NAME)



RN 569682-91-3 HCPLUS
 CN Phosphonic acid, [3-[[[3,5-dibromo-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

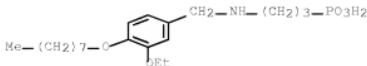


RN 569682-93-5 HCPLUS
 CN Phosphonic acid, [3-[[[3-chloro-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



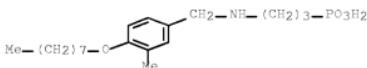
RN 569682-97-9 HCPLUS

CN Phosphonic acid, [3-[[[3-ethoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



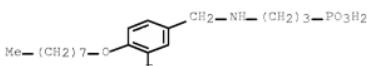
RN 569682-99-1 HCAPLUS

CN Phosphonic acid, [3-[[[3-methyl-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



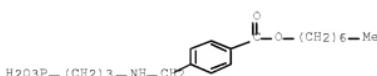
RN 569683-01-8 HCAPLUS

CN Phosphonic acid, [3-[[[3-fluoro-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



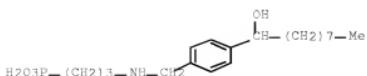
RN 569683-30-3 HCAPLUS

CN Benzoic acid, 4-[[[3-phosphonopropyl]amino]methyl]-, 1-heptyl ester (9CI) (CA INDEX NAME)

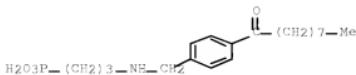


RN 569683-32-5 HCAPLUS

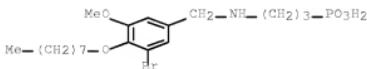
CN Phosphonic acid, [3-[[[4-(1-hydroxynonyl)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



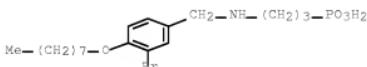
RN 569683-34-7 HCAPLUS
 CN Phosphonic acid, [3-[[4-(1-oxononyl)phenyl]methyl]amino]propyl]-
 (9CI) (CA INDEX NAME)



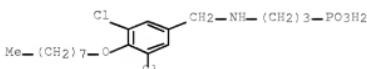
RN 569683-55-2 HCAPLUS
 CN Phosphonic acid, [3-[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



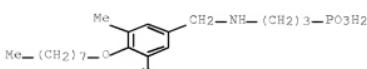
RN 569683-59-6 HCAPLUS
 CN Phosphonic acid, [3-[[3-bromo-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



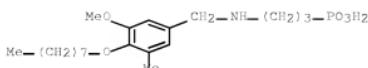
RN 569683-61-0 HCAPLUS
 CN Phosphonic acid, [3-[[3,5-dichloro-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



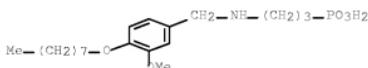
RN 569683-63-2 HCAPLUS
 CN Phosphonic acid, [3-[[3,5-dimethyl-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



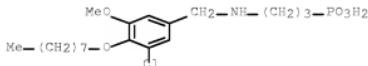
RN 569683-70-1 HCAPLUS
 CN Phosphonic acid, [3-[[[3-methoxy-5-methyl-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



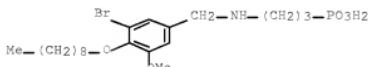
RN 569683-76-7 HCAPLUS
 CN Phosphonic acid, [3-[[[3-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



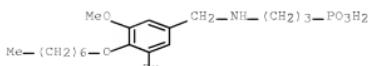
RN 569683-78-9 HCAPLUS
 CN Phosphonic acid, [3-[[[3-chloro-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



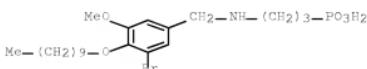
RN 569683-81-4 HCAPLUS
 CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(nonyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



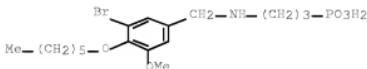
RN 569683-82-5 HCAPLUS
 CN Phosphonic acid, [3-[[[3-bromo-4-(heptyloxy)-5-methoxyphenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



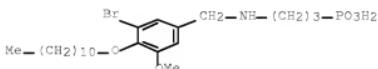
RN 569683-89-2 HCPLUS
 CN Phosphonic acid, [3-[[3-bromo-4-(decyloxy)-5-methoxyphenyl]methyl]amino]propyl- (9CI) (CA INDEX NAME)



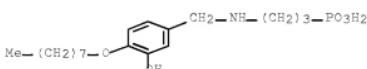
RN 569683-90-5 HCPLUS
 CN Phosphonic acid, [3-[[3-bromo-4-(hexyloxy)-5-methoxyphenyl]methyl]amino]propyl- (9CI) (CA INDEX NAME)



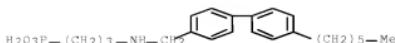
RN 569683-92-7 HCPLUS
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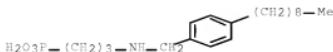
RN 569684-01-1 HCPLUS
 CN Phosphonic acid, [3-[[3-hydroxy-4-(octyloxy)phenyl]methyl]amino]propyl- (9CI) (CA INDEX NAME)



RN 569684-32-8 HCPLUS
 CN Phosphonic acid, [3-[(4'-hexyl[1,1'-biphenyl]-4-yl)methyl]amino]propyl- (9CI) (CA INDEX NAME)



RN 569684-50-0 HCPLUS
 CN Phosphonic acid, [3-[(4-nonylphenyl)methyl]amino]propyl- (9CI)
 (CA INDEX NAME)



CC 1-3 (Pharmacology)

Section cross-reference(s): 25

IT 569682-67-3P 569682-68-4P 569682-73-1P
 569682-91-3P 569682-93-5P 569682-97-9P
 569682-99-1P 569683-01-8P 569683-30-3P
 569683-32-5P 569683-34-7P 569683-55-2P
 569683-59-6P 569683-61-0P 569683-63-2P
 569683-70-1P 569683-76-7P 569683-78-9P
 569683-81-4P 569683-82-5P 569683-89-2P
 569683-90-5P 569683-92-7P 569684-01-1P
 569684-31-8P 569684-50-0P 724458-96-2P
 724458-97-3P

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (selecting against SLP3 enhances acute cardiovascular tolerability of 3-(N-benzyl)aminopropylphosphonic acid SLP receptor agonists)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L134 ANSWER 11 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:465499 HCPLUS [Full-text](#)

DOCUMENT NUMBER: 141:133550

TITLE: The discovery of 3-(N-alkyl)aminopropylphosphonic acids as potent SLP receptor agonists

AUTHOR(S): Hale, Jeffrey J.; Doherty, George; Toth, Leslie; Li, Zhen; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark; Milligan, James; Shei, Gan-Ju; Chrebet, Gary; Bergstrom, James; Card, Deborah; Rosen, Hugh; Mandala, Suzanne

CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(13), 3495-3499

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:133550

ED Entered STN: 10 Jun 2004

AB 3-(N-Alkyl)aminopropylphosphonic acids are potent agonists of four of the five known sphingosine-1-phosphate (SLP) receptor subtypes and are useful in immunosuppressive therapy.

IT 569684-59-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation, immunomodulatory effect and structure-activity

relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
as potent SIP receptor agonists)
RN 569684-50-0 HCPLUS
CN Phosphonic acid, [3-[[4-nonylphenyl)methyl]amino]propyl- (9CI)
(CA INDEX NAME)



IT 569684-52-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(preparation, immunomodulatory effect and structure-activity
relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
as potent SIP receptor agonists)
RN 569684-52-2 HCPLUS
CN Phosphonic acid, [3-[[4-nonylphenyl)methyl]amino]propyl- (9CI)
(CA INDEX NAME)



CC 1-3 (Pharmacology)
Section cross-reference(s): 21
IT 569684-50-0P 725724-58-3P 725724-59-4P 725724-60-7P
725724-61-8P 725724-62-9P 725724-63-0P 725724-64-1P
725724-65-2P 725724-66-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(preparation, immunomodulatory effect and structure-activity
relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
as potent SIP receptor agonists)
IT 402615-91-2 569682-76-4 569682-79-7 569682-80-0
569682-84-4 569682-85-5 569682-86-6 569684-52-2
596819-84-0 597340-18-6 597340-90-4 597340-97-1
597341-03-2 597341-12-3 725724-57-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(preparation, immunomodulatory effect and structure-activity
relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
as potent SIP receptor agonists)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE REFORMAT

L134 ANSWER 12 OF 12 HCPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:368306 HCPLUS [Full-text](#)
DOCUMENT NUMBER: 141:99302
TITLE: Immune cell regulation and cardiovascular
effects of sphingosine 1-phosphate receptor
agonists in rodents are mediated via distinct
receptor subtypes
AUTHOR(S): Forrest, M.; Sun, S.-Y.; Hajdu, R.; Bergstrom,
J.; Card, D.; Doherty, G.; Hale, J.; Keechane,
C.; Meyers, C.; Milligan, J.; Mills, S.;

Nomura, N.; Rosen, H.; Rosenbach, M.; Shei, G.-J.; Singer, I. I.; Tian, M.; West, S.; White, V.; Xie, J.; Proia, R. L.; Mandala, S. Departments of Immunology and Rheumatology, Pharmacology, and Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, USA

CORPORATE SOURCE: Journal of Pharmacology and Experimental Therapeutics (2004), 309(2), 758-768

SOURCE: CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and Experimental Therapeutics

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 06 May 2004

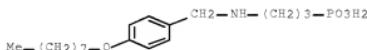
AB Sphingosine 1-phosphate (S1P) is a bioactive lysolipid with pleiotropic functions mediated through a family of G protein-coupled receptors, S1P_{1,2,3,4,5}. Physiological effects of S1P receptor agonists include regulation of cardiovascular function and immunosuppression via redistribution of lymphocytes from blood to secondary lymphoid organs. The phosphorylated metabolite of the immunosuppressant agent FY720 (2-amino-2-(2-[4-octylphenyl]ethyl)-1,3-propanediol) and other phosphonate analogs with differential receptor selectivity were investigated. No significant species differences in compound potency or rank order of activity on receptors cloned from human, murine, and rat sources were observed. All synthetic analogs were high-affinity agonists on S1P₁, with IC₅₀ values for ligand binding between 0.3 and 14 nM. The correlation between S1P₁ receptor activation and the ED₅₀ for lymphocyte reduction was highly significant ($p < 0.001$) and lower for the other receptors. In contrast to S1P₁-mediated effects on lymphocyte recirculation, three lines of evidence link S1P₃ receptor activity with acute toxicity and cardiovascular regulation: compound potency on S1P₃ correlated with toxicity and bradycardia; the shift in potency of phosphorylated-FY720 for inducing lymphopenia vs. bradycardia and hypertension was consistent with affinity for S1P₁ relative to S1P₃; and toxicity, bradycardia, and hypertension were absent in S1P₃-/- mice. Blood pressure effects of agonists in anesthetized rats were complex, whereas hypertension was the predominant effect in conscious rats and mice. Immunolocalization of S1P₃ in rodent heart revealed abundant expression on myocytes and perivascular smooth muscle cells consistent with regulation of bradycardia and hypertension, whereas S1P₁ expression was restricted to the vascular endothelium.

IT 569682-67-3 569683-55-2 569683-90-5

RL: PAC (Pharmacological activity); BIOL (Biological study)
(immune cell regulation and cardiovascular effects of sphingosine 1-phosphate receptor agonists in rodents are mediated via distinct receptor subtypes)

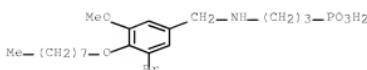
RN 569682-67-3 HCAPLUS

CN Phosphonic acid, [3-[[[4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

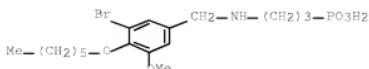


RN 569683-55-2 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



RN 569683-90-5 HCAPLUS
 CN Phosphonic acid, [3-[[3-bromo-4-(hexyloxy)-5-methoxyphenyl]methyl]amino]propyl- (9CI) (CA INDEX NAME)



CC 1-7 (Pharmacology)
 IT 26993-30-6, Sphingosine 1 phosphate 402615-91-2

569682-67-3 569683-55-2 569683-90-5
 719286-66-5 719286-67-6

RL: PAC (Pharmacological activity); BIOL (Biological study)
 (immune cell regulation and cardiovascular effects of
 sphingosine 1-phosphate receptor agonists in rodents are
 mediated via distinct receptor subtypes)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 09:32:45 ON 27 JUL 2007)

FILE 'HCAPLUS' ENTERED AT 09:33:39 ON 27 JUL 2007
E US20050070506/PN

L1 1 SEA ABB=ON PLU=ON US20050070506/PN
D ALL
SEL RN

FILE 'REGISTRY' ENTERED AT 09:34:34 ON 27 JUL 2007
L2 424 SEA ABB=ON PLU=ON (100-83-4/BI OR 101385-93-7/BI OR
101500-22-5/BI OR 103057-44-9/BI OR 103680-62-2/BI OR
103680-71-3/BI OR 10521-91-2/BI OR 106-41-2/BI OR
107-13-1/BI OR 108898-23-3/BI OR 110943-74-3/BI OR
111-70-6/BI OR 111-86-4/BI OR 1203-68-5/BI OR 1204-60-0
/BI OR 121-32-4/BI OR 121-33-5/BI OR 121118-78-3/BI OR
123-08-0/BI OR 130592-02-8/BI OR 13138-33-5/BI OR
131888-48-7/BI OR 13214-66-9/BI OR 13477-53-7/BI OR
13631-21-5/BI OR 13880-74-5/BI OR 139-85-5/BI OR
143-16-8/BI OR 146936-34-7/BI OR 148547-19-7/BI OR
149104-89-2/BI OR 15174-69-3/BI OR 167279-18-7/BI OR
169806-13-7/BI OR 17012-21-4/BI OR 18278-34-7/BI OR
188846-99-3/BI OR 19463-48-0/BI OR 198959-37-4/BI OR
2052-07-5/BI OR 208108-76-3/BI OR 2113-57-7/BI OR
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2374-05-2/BI OR 24076-33-3/BI OR 24083-12-3/BI OR
24083-13-4/BI OR 2420-16-8/BI OR 2439-54-5/BI OR
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2973-78-6/BI OR 3111-37-3/BI OR 3132-99-8/BI OR
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569682-68-4/BI OR 569682-69-5/BI OR 569682-70-8/BI OR
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569682-74-2/BI OR 569682-75-3/BI OR 569682-77-5/BI OR
569682-78-6/BI OR 569682-79-7/BI OR 569682-80-0/BI OR
569682-81-1/BI OR 569

L3 71 SEA ABB=ON PLU=ON L2 AND 1/NR AND 1/P AND 1/N
D 1-3 STR RSD
L4 154 SEA ABB=ON PLU=ON L2 AND 1/P

FILE 'HCAPLUS' ENTERED AT 09:39:18 ON 27 JUL 2007
L5 140355 SEA ABB=ON PLU=ON L2

FILE 'REGISTRY' ENTERED AT 09:39:32 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 09:42:04 ON 27 JUL 2007
D SCAN L1

FILE 'REGISTRY' ENTERED AT 09:42:05 ON 27 JUL 2007
L6 23 SEA ABB=ON PLU=ON L4 AND C4N/RF
D SCAN
L7 0 SEA ABB=ON PLU=ON L6 AND C4S/RF
L8 36 SEA ABB=ON PLU=ON L2 AND C4S/RF

10/501176

D SCAN
L9 67 SEA ABB=ON PLU=ON L2 AND C4N/RF
L10 7 SEA ABB=ON PLU=ON L8 AND L9
D SCAN

FILE 'STNGUIDE' ENTERED AT 09:47:31 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 09:58:25 ON 27 JUL 2007
L11 7 SEA ABB=ON PLU=ON L2 AND C2N2O/RF
L12 1 SEA ABB=ON PLU=ON L10 AND L11
D SCAN
D SCAN L12
D SCAN L11
L13 43 SEA ABB=ON PLU=ON L2 AND 3/F
L14 36 SEA ABB=ON PLU=ON L13 AND L8
L15 7 SEA ABB=ON PLU=ON L13 AND L10
D SCAN

FILE 'STNGUIDE' ENTERED AT 10:03:40 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 10:05:33 ON 27 JUL 2007
L16 12 SEA ABB=ON PLU=ON L2 AND C3N/RF
D SCAN

FILE 'STNGUIDE' ENTERED AT 10:06:39 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 10:07:56 ON 27 JUL 2007
L17 6 SEA ABB=ON PLU=ON L16 AND L8
L18 1 SEA ABB=ON PLU=ON L16 AND L11

FILE 'STNGUIDE' ENTERED AT 10:08:37 ON 27 JUL 2007
D SCAN L18

FILE 'REGISTRY' ENTERED AT 10:08:53 ON 27 JUL 2007
D SCAN L17
D SCAN L18

FILE 'STNGUIDE' ENTERED AT 10:09:12 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 10:12:52 ON 27 JUL 2007
D RSD
L19 40 SEA ABB=ON PLU=ON L9 AND C6/RF AND 2/NR
L20 9 SEA ABB=ON PLU=ON L19 AND 4/O
D SCAN
L21 1 SEA ABB=ON PLU=ON L20 AND C22 H33 N 04/MF
L22 2 SEA ABB=ON PLU=ON L9 AND 1/F
D SCAN
D SCAN L12
L23 1 SEA ABB=ON PLU=ON L16 AND 2/NR AND 2/O
D SCAN
L24 22 SEA ABB=ON PLU=ON L9 AND 2/NR AND 2-3/O AND C6/RF
L25 11 SEA ABB=ON PLU=ON L24 AND 2/O
D SCAN
L26 2 SEA ABB=ON PLU=ON L25 AND 21/C
D SCAN
L27 4 SEA ABB=ON PLU=ON L24 AND 20/C AND 3/O
D SCAN
L28 6 SEA ABB=ON PLU=ON L2 AND 2/BR
D SCAN
L29 3 SEA ABB=ON PLU=ON L28 AND 2/NR
D SCAN
D QUE
L30 6 SEA ABB=ON PLU=ON L9 AND 2/NR AND 5/O AND 1/P
D SCAN
L31 6 SEA ABB=ON PLU=ON L15 AND 4/NR
L32 5 SEA ABB=ON PLU=ON L31 AND 3/O
D SCAN

10/501176

L33 27 SEA ABB=ON PLU=ON L3 AND 4/O
L34 10 SEA ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
D SCAN
L35 5 SEA ABB=ON PLU=ON L34 AND 20-30/C
D SCAN
L36 92 SEA ABB=ON PLU=ON L2 AND 2/NR NOT ((L8 OR L9) OR 11)
L37 44 SEA ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
D SCAN

FILE 'STNGUIDE' ENTERED AT 10:53:32 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 10:57:53 ON 27 JUL 2007
L38 32 SEA ABB=ON PLU=ON L37 AND 20-100/C
L39 0 SEA ABB=ON PLU=ON L38 AND 1/S
D QUE
L40 0 SEA ABB=ON PLU=ON L37 AND 1-5/S
D SCAN L3
L41 68 SEA ABB=ON PLU=ON L3 AND C6/RF
L42 68 SEA ABB=ON PLU=ON L41 AND 12-50/C
D SCAN

FILE 'STNGUIDE' ENTERED AT 11:12:32 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007
L43 157 SEA ABB=ON PLU=ON L6 OR (L10 OR L11 OR L12 OR L13 OR
L14 OR L15 OR L16 OR L17 OR L18) OR (L19 OR L20 OR L21
OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR
L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38
L44 199 SEA ABB=ON PLU=ON (L41 OR L42 OR L43)

FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007
L45 849 SEA ABB=ON PLU=ON L44
L46 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
L47 483 SEA ABB=ON PLU=ON L45 AND L46
D SCAN L1
L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
MY<2003 OR REVIEW/DT
L49 270 SEA ABB=ON PLU=ON L47 AND L48
L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR
IMMUN?(A) (SUPPRESS? OR REG?)
L51 7 SEA ABB=ON PLU=ON L49 AND L50
D SCAN
E IMMUNOSUPPRESSIVES/CT
E IMMUNOSUP/CT
L52 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT, OLD, NT/CT
L53 QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT, OLD, NT/CT
E AGONIS/CT
E AGON/CT
L54 6 SEA ABB=ON PLU=ON L49 AND (L52 OR L53)
D SCAN
E ANTAGONISTS/CT
E ANTAG/CT
E ANTAGONISM/CT
E E3+ALL
L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT
L56 0 SEA ABB=ON PLU=ON L49 AND L55
L57 QUE ABB=ON PLU=ON AGON? OR ANTAG?
L58 79 SEA ABB=ON PLU=ON L49 AND L57
D L***-L*** KWIC
D 70-79 KWIC
L59 QUE ABB=ON PLU=ON EDG1(A)S1P?
L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P?
D 1-3 KWIC
L61 2 SEA ABB=ON PLU=ON L60 AND L49
D 1-2 KWIC
L62 QUE ABB=ON PLU=ON F(?)Y

L63 0 SEA ABB=ON PLU=ON L49 AND L62
 E EDG1 RECEPTOR/CT
 E EDG1 AGONIST/CT
 E FTY/CT
 E GTP/CT
 E E3+ALL
 E GTP/CT
 L64 QUE ABB=ON PLU=ON GTP? OR FTP?
 L65 0 SEA ABB=ON PLU=ON L49 AND L64
 L66 QUE ABB=ON PLU=ON 720
 L67 0 SEA ABB=ON PLU=ON L49 AND L66
 L68 QUE ABB=ON PLU=ON AUTOIMMUN?
 L69 21 SEA ABB=ON PLU=ON L49 AND L68
 D 1-5 KWIC
 L70 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
 L71 32 SEA ABB=ON PLU=ON L49 AND L70
 D SCAN L1
 E INFLAMMATION/CT
 L72 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
 L73 41 SEA ABB=ON PLU=ON L49 AND L72
 E INFECTION/CT
 E INFECTIONS/CT
 L74 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT
 L75 15 SEA ABB=ON PLU=ON L49 AND L74
 L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
 L77 7 SEA ABB=ON PLU=ON L49 AND L76
 L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
 L79 16 SEA ABB=ON PLU=ON L49 AND L78
 D L1 IT
 L80 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,O
 LD,NT/CT
 L81 29 SEA ABB=ON PLU=ON L49 AND L80
 L82 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
 L83 22 SEA ABB=ON PLU=ON L49 AND L82
 E MUSCULAR DYSTRO/CT
 L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
 L85 3 SEA ABB=ON PLU=ON L49 AND L84
 L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT,OLD,NT/CT
 L87 30 SEA ABB=ON PLU=ON L49 AND L86
 E DERMATITIS/CT
 E E3+ALL
 L88 QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
 L89 12 SEA ABB=ON PLU=ON L49 AND L88
 L90 68 SEA ABB=ON PLU=ON L51 OR L61 OR L69 OR L71 AND L73
 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85 OR L89 OR
 L87
 L91 24 SEA ABB=ON PLU=ON L58 AND L90
 L92 7 SEA ABB=ON PLU=ON L90 AND L50
 L93 2 SEA ABB=ON PLU=ON L90 AND L60
 L94 QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
 L95 44 SEA ABB=ON PLU=ON L49 AND L94
 L96 32 SEA ABB=ON PLU=ON L95 AND L90
 SAV L96 JEAI76HCP/A
 DEL SEL
 SEL L96 HIT RN
 D SCAN
 DEL SEL
 SEL L1 AU
 L97 1272 SEA ABB=ON PLU=ON ("DOHERTY, GEORGE A."/AU OR
 "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/AU OR
 "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR "MANDALA,
 SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR "ROSEN,
 HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
 L98 714 SEA ABB=ON PLU=ON L97 AND L48

10/501176

L100 228 SEA ABB=ON PLU=ON L99 AND L98
L101 26 SEA ABB=ON PLU=ON L100 AND L50
L102 1 SEA ABB=ON PLU=ON L1 AND L101
L103 28 SEA ABB=ON PLU=ON L96 NOT L101
D SCAN

FILE 'REGISTRY' ENTERED AT 12:08:47 ON 27 JUL 2007
L104 1 SEA ABB=ON PLU=ON 3300-51-4/RN
D SCAN

FILE 'STNGUIDE' ENTERED AT 12:10:46 ON 27 JUL 2007

FILE 'REGISTRY' ENTERED AT 12:12:43 ON 27 JUL 2007
L105 179 SEA ABB=ON PLU=ON L44 AND 18-70/C

FILE 'HCAPLUS' ENTERED AT 12:13:38 ON 27 JUL 2007
L106 15 SEA ABB=ON PLU=ON L105
L107 0 SEA ABB=ON PLU=ON L106 AND L103
D SCAN L106
D L106 1-15 CC
L108 3 SEA ABB=ON PLU=ON L106 AND L48
D SCAN

FILE 'REGISTRY' ENTERED AT 12:18:30 ON 27 JUL 2007
L109 20 SEA ABB=ON PLU=ON L44 NOT L105
D SCAN
L110 1 SEA ABB=ON PLU=ON L109 AND C14 H24 N 04 P/MF
L111 1 SEA ABB=ON PLU=ON L109 AND C17 H29 BR N 05 P/MF
L112 181 SEA ABB=ON PLU=ON L105 OR L110 OR L111

FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007
L113 15 SEA ABB=ON PLU=ON L112
L114 15 SEA ABB=ON PLU=ON L106 OR L113
L115 3 SEA ABB=ON PLU=ON L114 AND L48
L116 3 SEA ABB=ON PLU=ON L115 AND (L50 OR (L52 OR L53) OR
L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR L76 OR L78
OR L80)
L117 3 SEA ABB=ON PLU=ON L116 AND (L82 OR L84 OR L86 OR L88
OR L94)
D SCAN
SAV L117 JEA176HCPA/A
L118 3 SEA ABB=ON PLU=ON L117 NOT L103
L119 0 SEA ABB=ON PLU=ON L117 NOT L101
L120 4 SEA ABB=ON PLU=ON L96 AND L50
D SCAN
L121 0 SEA ABB=ON PLU=ON L120 NOT L101
D QUE L101
L122 12 SEA ABB=ON PLU=ON L113 NOT (L118 OR L120)
D SCAN
SAV L122 JEA176HCPB/A

FILE 'REGISTRY' ENTERED AT 12:39:55 ON 27 JUL 2007
L123 0 SEA ABB=ON PLU=ON L112 AND MEDLINE/LC
L124 0 SEA ABB=ON PLU=ON L112 AND BIOSIS/LC
L125 0 SEA ABB=ON PLU=ON L112 AND DRUGU/LC
L126 0 SEA ABB=ON PLU=ON L112 AND EMBASE/LC
D QUE

FILE 'MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:40:59 ON 27
JUL 2007

L127 0 SEA ABB=ON PLU=ON L126
L128 608 SEA ABB=ON PLU=ON L97
L129 277 SEA ABB=ON PLU=ON L128 AND L98
L130 143 SEA ABB=ON PLU=ON L129 AND L48
L131 6 SEA ABB=ON PLU=ON L130 AND (L50 OR L59)
D 1-6 TI
SAV L131 JEA176MULTIN/A

FILE 'STNGUIDE' ENTERED AT 12:44:10 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 12:45:23 ON 27 JUL 2007
SAV L101 JEA176HCPIN/A

FILE 'STNGUIDE' ENTERED AT 12:46:17 ON 27 JUL 2007
D QUE L101
D QUE L101
D QUE L131

FILE 'HCAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:49:36 ON 27 JUL 2007
L132 29 DUP REM L101 L131 (3 DUPLICATES REMOVED)
ANSWERS '1-26' FROM FILE HCAPLUS
ANSWERS '27-29' FROM FILE BIOSIS
D L132 1-29 IBIB ED AB

L133 4 SEA ABB=ON PLU=ON (L106 OR L96) AND L101
D SCAN
D QUE L133
D L133 1-4 IBIB ED ABS FHITSTR HITIND

FILE 'STNGUIDE' ENTERED AT 13:04:20 ON 27 JUL 2007
D QUE L119
D QUE L121
D QUE L122
D QUE L127

FILE 'HCAPLUS' ENTERED AT 13:06:51 ON 27 JUL 2007
L134 12 DUP REM L119 L121 L122 L127 (0 DUPLICATES REMOVED)
ANSWERS '1-12' FROM FILE HCAPLUS
D L134 1-12 IBIB ED ABS HITSTR HITIND